

#### This file contains the following documents:

- 1. Summary of application (in plain language)
  - English
  - Alternative Language (Spanish)
- 2. First Notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
  - English
  - Alternative Language (Spanish)
- 3. Application materials



#### Este archivo contiene los siguientes documentos:

- 1. Resumen en lenguaje sencillo (PLS, por sus siglas en inglés) de la actividad propuesta
  - Inglés
  - Idioma alternativo (español)
- 2. Primer aviso (NORI, por sus siglas en inglés)
  - Inglés
  - Idioma alternativo (español)
- 3. Solicitud original

#### PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

Plain Language Summary Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Undine Texas Environmental, LLC (CN604519330) proposes to operate Marigold Wastewater Treatment Facility (RN112012273), a activated sludge process plant operated in the complete mix mode. The facility will be located at The facility will be located approx. 0.8 miles sw of the intersection of Mathis Rd and Betka Rd Road 902, in, Waller County, Texas 77484. This application for a new discharge with a final phase of 0.125MGD..

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-N), and *Escherichia coli*.. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, aeration basins, final clarifiers, sludge digesters, and chlorine contact chambers.

#### PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

Undine Texas Environmental, LLC (CN604519330) (RN112012273), planta de procesamiento de lodos activados operada en el modo de mezcla completa. La instalación estará ubicada aproximadamente a 0.8 millas al suroeste de la intersección de Mathis Rd y Betka Rd propone operar Planta de tratamiento de aguas residuales de Marigold un será Road 902, en, County, Texas. Esta solicitud de un nuevo vertido con una fase final de 0,125MGD. Waller 77484

Se espera que las descargas de la instalación contengan una demanda bioquímica carbonosa de oxígeno (CBOD5) de cinco días, sólidos suspendidos totales (TSS), nitrógeno amoniacal (NH3-N) y *Escherichia coli*. Las aguas residuales domésticas serán tratadas por una planta de procesamiento de lodos activados y las unidades de tratamiento incluirán una pantalla de barras, cuencas de aireación, clarificadores finales, digestores de lodos y cámaras de contacto con cloro.



### NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN WATER QUALITY PERMIT

#### PROPOSED PERMIT NO. WQ0016580001

APPLICATION. Undine Texas Environmental, LLC, 17681 Telge Road, Cypress, Texas 77429, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016580001 (EPA I.D. No. TX0146366) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 125,000 gallons per day. The domestic wastewater treatment facility will be located approximately 0.8 miles southwest of the intersection of Betka Road and Mathis Road, near the city of Waller, in Waller County, Texas 77484. The discharge route will be from the plant site to Mound Creek, thence to Cypress Creek. TCEQ received this application on July 19, 2024. The permit application will be available for viewing and copying at Melanee Smith Memorial Library, 1018 Saunders Street, Waller, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage:

https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.915,30.006111&level=18

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at: <a href="https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications">https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications</a>. El aviso de idioma alternativo en español está disponible en <a href="https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications">https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications</a>.

ADDITIONAL NOTICE. TCEQ's Executive Director has determined the application is administratively complete and will conduct a technical review of the application. After technical review of the application is complete, the Executive Director may prepare a draft permit and will issue a preliminary decision on the application. Notice of the Application and Preliminary Decision will be published and mailed to those who are on the countywide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.

**PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application.** The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public

interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. Unless the application is directly referred for a contested case hearing, the response to comments, and the Executive Director's decision on the application, will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application. If comments are received, the mailing will also provide instructions for requesting reconsideration of the Executive Director's decision and for requesting a contested case hearing. A contested case hearing is a legal proceeding similar to a civil trial in state district court.

TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST: your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period and, the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

Following the close of all applicable comment and request periods, the Executive Director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period.

MAILING LIST. If you submit public comments, a request for a contested case hearing or a reconsideration of the Executive Director's decision, you will be added to the mailing list for this specific application to receive future public notices mailed by the Office of the Chief Clerk. In addition, you may request to be placed on: (1) the permanent mailing list for a specific applicant name and permit number; and/or (2) the mailing list for a specific county. If you wish to be placed on the permanent and/or the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

**INFORMATION AVAILABLE ONLINE.** For details about the status of the application, visit the Commissioners' Integrated Database at <a href="https://www.tceq.texas.gov/goto/cid">www.tceq.texas.gov/goto/cid</a>. Search the database using the permit number for this application, which is provided at the top of this notice.

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at <a href="https://www14.tceq.texas.gov/epic/eComment/">https://www14.tceq.texas.gov/epic/eComment/</a>, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at <a href="www.tceq.texas.gov/goto/pep">www.tceq.texas.gov/goto/pep</a>. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Undine Texas Environmental, LLC at the address stated above or by calling Mr. Jeff Goebel, Business Development, at 713-724-9321.

Issuance Date: October 15, 2024

#### Comisión de Calidad Ambiental del Estado de Texas



#### AVISO DE RECIBO DE LA SOLICITUD Y EL INTENTO DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA

#### PERMISO PROPUESTO NO. WQ0016580001

APLICACIÓN. Undine Texas Environmental, LLC, 17681 Telge Road, Cypress, Texas 77429, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEO) el Permiso No. WQ0016580001 (EPA I.D. No. TX0146366) autorizar la descarga de aguas residuales tratadas a un volumen que no exceda un flujo promedio diario de 125,000 galones por día. La instalación de tratamiento de aguas residuales domésticas estará ubicada aproximadamente a o.8 millas al suroeste de la intersección de Betka Road y Mathis Road, cerca de la ciudad de Waller, en el condado de Waller, Texas 77484. La ruta de descarga será desde el sitio de la planta hasta Mound Creek, y de allí a Cypress Creek. TCEQ recibió esta solicitud el 19 de julio de 2024. La solicitud de permiso estará disponible para su visualización y copia en la Biblioteca Conmemorativa Melanee Smith, 1018 Saunders Street, Waller, Texas antes de la fecha en que se publique este aviso en el periódico. La solicitud, incluidas las actualizaciones, y los avisos asociados están disponibles electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o instalación se proporciona como una cortesía pública y no forma parte de la solicitud o aviso. Para conocer la ubicación exacta, consulte la aplicación.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.915,30.006111&level=18

AVISO ADICIONAL. El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y emitirá una Decisión Preliminar sobre la solicitud. El aviso de la solicitud y la decisión preliminar serán publicados y enviado a los que están en la lista de correo de las personas a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter comentarios públicos.

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

**OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.** Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos

los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso. Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO. USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS: su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y porqué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.

**LISTA DE CORREO.** Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Ademas, puede pedir que la TCEQ ponga su nombre en una or mas de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envia por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía

http://www14.tceq.texas.gov/epic/eComment/ o por escrito dirigidos a la Comisión de Texas de Calidad Ambiental, Oficial de la Secretaría (Office of Chief Clerk), MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Para obtener más información acerca de esta solicitud de permiso o el proceso de permisos, llame al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del undine Texas Environmental, LLC a la dirección indicada arriba o llamando a Jeff Goebel al 713-724-9321.

Fecha de emisión 15 de octubre de 2024

#### **Abesha Michael**

From: Jeff Goebel <jgoebel@undinellc.com>
Sent: Wednesday, September 18, 2024 9:36 PM

**To:** Abesha Michael

Subject: RE: Application for Proposed Permit No. WQ0016580001 - Notice of Deficiency Letter

**Attachments:** A-2 PLS.docx; Mailing Labels.docx; Page 8.pdf

Follow Up Flag: Follow up Flag Status: Flagged

#### Abesha,

1. Section II, items 11, 12, 13 on page 1 of the Core Data Form (CDF): These items were left blank. However, all items in the CDF must be completed. Please submit an updated page 1.

#### Please see attached revised page one of the Core Data Form.

2. Section III, item 25, physical location description, on page 2 of the Core Data Form (CDF): We have revised the distance between the facility location and the rood intersection. Facility is located approximately 1.15 miles southwest of the intersection of Betka Road and Mathis Road, near the city of Waller, in Waller County, Texas 77484: Please confirm.

#### The location of the facility at 0.8 miles from the intersection is correct.

3. Section 8, item F on page 7 of the administrative report: Thank you for the Plain Language Summary in English and Spanish (PLS). However, the summaries are not completed. Please complete the PLS including Customer Number (CN) and Regulated Entity Number (RN). Please refer the CN and RN numbers from the subject line of this letter.

#### Please see revised PLS.

4. Section 10, item C on page 8 of the administrative report: This item was left blank. However, confirmation to discharge to a city, county or state highway right-of-way has to be determined. Please update and submit a revised page.

#### Please see revised page 8.

5. Section 13 on page 10 of the administrative report: We are unable to locate the FULL-SIZE USGS map, However, for proposed application a full-size USGS map is a requirement. Please submit labeled full size 15 minutes USGS map.

### A full size USGS was submitted with the application, the copy you were most likely given was not the original. An new original USGS map will be overnight to your attention on 9/19/24.

6. Section 14, Signature Page, on Page 13 of the Administrative Report: Mr. Vance Tillman, as an authorized agent, signed the signature page we received. Texas Commission of Environmental Quality (TCEQ) rules require the application be signed by a principal executive officer (e.g., Vice President, Board of Directors, etc.). We were unable to confirm whether Mr. Tillman is authorized to sign. Please confirm Mr. Tillman meets the signatory requirements under 30 TAC 305.44 and is authorized to sign the application. If not, please submit a notarized signature page signed by an authorized agent and update section 3, item A on page 3 of the administrative report accordingly.

#### Mr. Tillman is the CFO of Undine and Authorized to sign.

7. Section 1, item C, affected landowner information, on page 12 of the administrative report: Please email the mailing labels in a word format.

#### Please see attached mailing labels.

8. Section 1, item D, affected landowner information on page 12 of the application: Thank you for addressing this item. However, CAD doesn't indicate the source of the landowner's name and mailing address information. Please submit a revised page 12 with the name of the source.

The source of the landowner mailing labels, and information was derived from the County Appraisal District (CAD). This has been an acronym used on many applications.

9. The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

APPLICATION. Undine Texas Environmental, LLC, 17681 Telge Road, Cypress, Texas 77429, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016580001 (EPA I.D. No. TX0146366) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of

125,000 gallons per day. The domestic wastewater treatment facility will be located approximately 1.15 miles southwest of the intersection of Betka Road and Mathis Road, near the city of Waller, in Waller County, Texas 77484 (TBD-1.15 mi). The discharge route will be from the

plant site directly to Mound Creek (Pending-RWA confirmation). TCEQ received this application on July 19, 2024. The permit application will be available for viewing and copying at Melanee Smith Memorial Library', 1018 Saunders Street, Waller, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic

map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.915,30.006111&level=18 Further information may also be obtained from Undine Texas Environmental, LLC at the address stated above or by calling Mr. Jeff Goebel, Business Development, at 713-724-9321.

#### The NORI is correct pending the missing and revised information from TCEQ.

10. The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.
nce the above NORI is completed by the TCEQ please forward me a word copy of the notice and I will have
translated into Spanish. Until then a translation will not be complete.
lease let me know if you need additional information.
hank you
eff Goebel
en Goebet

	Prefix: Click to enter text.	Last Name, First Name: Click to enter text.
	Title: Click to enter text.	Credential: Click to enter text.
	Organization Name: Click to ent	er text.
	Mailing Address: Click to enter t	cext. City, State, Zip Code: Click to enter text.
	Phone No.: Click to enter text.	E-mail Address: Click to enter text.
	If the landowner is not the same agreement or deed recorded eas	e person as the facility owner or co-applicant, attach a lease ement. See instructions.
	Attachment: Click to enter to	ext.
F.	Owner sewage sludge disposal s property owned or controlled by	ite (if authorization is requested for sludge disposal on y the applicant)::
	Prefix: Click to enter text.	Last Name, First Name: Click to enter text.
	Title: Click to enter text.	Credential: Click to enter text.
	Organization Name: Click to ent	er text.
	Mailing Address: Click to enter t	cext. City, State, Zip Code: Click to enter text.
	Phone No.: Click to enter text.	E-mail Address: Click to enter text.
	If the landowner is not the same agreement or deed recorded eas	e person as the facility owner or co-applicant, attach a lease ement. See instructions.
	Attachment: Click to enter to	ext.
Se	ection 10. TPDES Dischar	ge Information (Instructions Page 31)
		ge Information (Instructions Page 31) lity location in the existing permit accurate?
	Is the wastewater treatment faci	lity location in the existing permit accurate?  on, please give an accurate description:
	Is the wastewater treatment faci	lity location in the existing permit accurate?
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A.	Is the wastewater treatment facing Yes No  If no, or a new permit application The facility will be located approx.  Are the point(s) of discharge and Yes No  If no, or a new or amendment proposed to discharge and the discharge and the discharge and the facility thence to Mound City nearest the outfall(s): Wallest County in which the outfalls(s) is	on, please give an accurate description:  o.8 miles sw of the intersection of Mathis Rd and Betka Rd  d the discharge route(s) in the existing permit correct?  permit application, provide an accurate description of the harge route to the nearest classified segment as defined in 30.  Creek  r s/are located: Waller discharge to a city, county, or state highway right-of-way, or

**E.** Owner of effluent disposal site:

# TCEQ

#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

# Plain Language Summary Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Applicants should use this template to develop a plain language summary as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. Applicants may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

Fill in the highlighted areas below to describe your facility and application in plain language. Instructions and examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements.

If you are subject to the alternative language notice requirements in 30 TAC Section 39.426, you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package. For your convenience, a Spanish template has been provided below.

# ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

Undine Texaws Environmental, LLC (CN604519330) proposes to operate Marigold Wastewater Treatment Facility (RN112012273), a activated sludge process plant operated in the complete mix mode. The facility will be located at The facility will be located approx. 0.8 miles sw of the intersection of Mathis Rd and Betka Rd Road 902, near the city of Waller, Waller County, Texas 77484. This application for a new discharge with a final phase of 0.125MGD. << For TLAP applications include the following sentence, otherwise delete:>> This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain contain five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-N), and *Escherichia coli*.. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, aeration basins, final clarifiers, sludge digesters, and chlorine contact chambers and De chlorine contact chambers.

SUKHANI MANAGEMENT LLC 16521 MATHIS ROAD WALLER TX 77484 BRILEY KRISTINA BRILEY BILLY C & KATHY & ALISHA K PO BOX 698 WALLER TX 77484 WILSON DAMON KENNETH 15983 MATHIS ROAD WALLER TX 77484

LEWIS MARNA KAY SHOFNAR PO BOX 1618 WALLER TX 77484 MERIT NDT LLC 1511 LAKE GRAYSON DR KATY TX 77494 HORACE DELTON LAMONTE PO BOX 1557 WALLER TX 77484

SCHWARTZ JUDITH L 3331 DAMICO ST #903 HOUSTON TX 77019 REESE SANDRA RUTH 7757 HIDDEN TRAIL BRYAN TX 77808

HEGAR A B TRUST FOR GLENN A HEGAR PO BOX 27 HOCKLEY TX 77447



# **TCEQ Core Data Form**

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

#### **SECTION I: General Information**

1. Reason for Submission (If other is checked please describe in space provided.)

New Pern	nit, Registra	ition or A	Authorization (	Core Data F	orm should be	e submitte	d with	the prog	ram appli	cation.)			
Renewal	Renewal (Core Data Form should be submitted with the renewal form)								Other				
2. Customer	2. Customer Reference Number (if issued)  Follow this lin for CN or RN or							3. Re	gulated I	Entity Refe	erence	Number (if	issued)
CN 6045193	30					Registry*		RN 1	1120122	73			
SECTION	N II:	Cust	tomer	Infor	mation	<u>n</u>							
4. General Cu	istomer In	formati	ion	5. Effectiv	ve Date for C	Customer	r Info	rmation	Updates	(mm/dd/y	ууу)		
☐ New Custor☐ Change in Le		Verifiabl			tomer Inform of State or Te		trolle			ulated Entit s)	ty Owne	ership	
The Custome (SOS) or Texa				-	l automatica	ally based	d on v	what is c	urrent a	nd active (	with th	ne Texas Sec	cretary of State
6. Customer	Legal Nam	e (If an i	individual, prii	nt last name	first: eg: Doe,	. John)			<u>If new (</u>	Customer, e	nter pre	evious Custon	ner below:
Undine Texas E	nvironmen	tal, LLC											
7. TX SOS/CP	A Filing N	umber		8. TX Sta	te Tax ID (11	digits)		9. Federal Tax ID			)	10. DUNS Number (if	
801768069				32050717	274	(9 digits)			applicable)				
									463168	881			
11. Type of C	ustomer:		☐ Corporat	ion				Individ	dual		Partne	ership: 🔲 Ge	neral Limited
Government: [	City 🔲 0	County [	Federal 🗌	Local 🗌 Sta	ate 🗌 Other			Sole P	roprietors	ship	⊠ Otl	her: LLC	
12. Number o	of Employ	ees							13. Inc	lependent	tly Ow	ned and Op	erated?
⊠ 0-20 □ 2	21-100	] 101-25	50 🗌 251-	500 🗌 50	01 and higher				⊠ Yes		No		
14. Customer	Role (Pro	oosed or	Actual) – as i	t relates to t	he Regulated L	Entity liste	ed on t	this form.	Please ch	eck one of t	he follo	wing	
Owner Occupation	al Licensee		erator esponsible Par		Owner & Oper					Other:			
15. Mailing	17681 Te	lge Rd											
Address:													
	City	Cypres	ss		State	TX		ZIP	77429			ZIP + 4	
16. Country N	Mailing Inf	ormatio	on (if outside	USA)		,	17. I	E-Mail A	ddress (ij	f applicable <sub>,</sub>	)		
							ctho	mas@unc	dinellc.cor	n			
18. Telephon	e Number				19. Extensi	ion or Co	ode			20. Fax Nu	ımber	(if applicable	)

TCEQ-10400 (11/22) Page 1 of 3

# APPLICATION FOR RENEWAL OF A DOMESTIC WASTEWATER DISCHARGE PERMIT

Permit No.: Pending

Marigold Wastewater Treatment Facility

#### Submitted to:

Executive Director
Texas Commission on Environmental Quality
Attn: Water Quality Division
Wastewater Permits Section/Application Team (MC 148)
12100 Park 35 Circle
Building F
Ausitn Texas 78753



Submitted by:

Undine Texas Environmental, LLC 17681 Telge Rd Cypress Texas 77429

0016580001



# DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Undine Texas Env	rironmental, LLC
----------------------------------	------------------

PERMIT NUMBER (If new, leave blank): WQ00 Click to enter text.

Indicate if each of the following items is included in your application.

	Y	N		Y	N
Administrative Report 1.0	$\boxtimes$		Original USGS Map		
Administrative Report 1.1	$\boxtimes$		Affected Landowners	Map 🖂	
SPIF	$\boxtimes$		Landowner Disk or La	bels ⊠	
Core Data Form	$\boxtimes$		Buffer Zone Map		
Public Involvement Plan Form	$\boxtimes$		Flow Diagram		
Technical Report 1.0	$\boxtimes$		Site Drawing	$\boxtimes$	
Technical Report 1.1		$\boxtimes$	Original Photographs	$\boxtimes$	
Worksheet 2.0	$\boxtimes$		<b>Design Calculations</b>		
Worksheet 2.1	$\boxtimes$		Solids Management Pl	an 🛛	
Worksheet 3.0		$\boxtimes$	Water Balance		$\boxtimes$
Worksheet 3.1		$\boxtimes$			
Worksheet 3.2		$\boxtimes$			
Worksheet 3.3		$\boxtimes$			
Worksheet 4.0		$\boxtimes$			
Worksheet 5.0		$\boxtimes$			
Worksheet 6.0		$\boxtimes$			
Worksheet 7.0		$\boxtimes$		total personal and a	
				RECE	
				JUL 19 23	24
For TCEQ Use Only				Water Quality Applicati	wed on
Segment Number Expiration Date Permit Number					



#### DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

For any questions about this form, please contact the Applications Review and Processing Team at 512-239-4671.

#### Section 1. Application Fees (Instructions Page 26)

Indicate the amount submitted for the application fee (check only one).

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 □	\$315.00 ☒
≥0.05 but <0.10 MGD	\$550.00 □	\$515.00 □
≥0.10 but <0.25 MGD	\$850.00 ⊠	\$815.00 □
≥0.25 but <0.50 MGD	\$1,250.00 □	\$1,215.00 □
≥0.50 but <1.0 MGD	\$1,650.00 □	\$1,615.00 □
≥1.0 MGD	\$2,050.00 □	\$2,015.00 □

Minor Amendment (for any flow) \$150.00 □

#### **Payment Information:**

Mailed Check/Money Order Number: 9200

Check/Money Order Amount: 850.00

Name Printed on Check: Undine Operating, LLC

EPAY Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes □

#### Section 2. Type of Application (Instructions Page 26)

a.	Che	ck the box next to the appropriate authorization type.
		Publicly-Owned Domestic Wastewater
	$\boxtimes$	Privately-Owned Domestic Wastewater
		Conventional Wastewater Treatment
b.	Che	ck the box next to the appropriate facility status.
	$\boxtimes$	Active □ Inactive

C.	Che	eck the box next to the appropriate permit typ	e.	
	$\boxtimes$	TPDES Permit		
		TLAP		
		TPDES Permit with TLAP component		
		Subsurface Area Drip Dispersal System (SAD	DS)	
d.	Che	eck the box next to the appropriate application	ı typ	e
	$\boxtimes$	New		
		Major Amendment <u>with</u> Renewal		Minor Amendment with Renewal
		Major Amendment <u>without</u> Renewal		Minor Amendment <u>without</u> Renewal
		Renewal without changes		Minor Modification of permit
e.	For	amendments or modifications, describe the p	ropo	osed changes: Click to enter text.
f.	For	existing permits:		
	Peri	mit Number: WQ00 Click to enter text.		
	EPA	I.D. (TPDES only): TX		
	Exp	iration Date: Click to enter text.		

# Section 3. Facility Owner (Applicant) and Co-Applicant Information (Instructions Page 26)

#### A. The owner of the facility must apply for the permit.

What is the Legal Name of the entity (applicant) applying for this permit?

#### Undine Texas Environmental, LLC

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)

If the applicant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at <a href="http://www15.tceq.texas.gov/crpub/">http://www15.tceq.texas.gov/crpub/</a>

CN: 604519330

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in 30 TAC § 305.44.

Prefix: Mr Last Name, First Name: <u>Tillman, Vance</u>

Title: <u>CFO</u> Credential: Click to enter text.

**B. Co-applicant information.** Complete this section only if another person or entity is required to apply as a co-permittee.

What is the Legal Name of the co-applicant applying for this permit?

Click to enter text.

(The legal name must be spelled exactly as filed with the TX SOS, with the County, or in the legal documents forming the entity.)

If the co-applicant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at: http://www15.tceq.texas.gov/crpub/

CN: Click to enter text.

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in 30 TAC § 305.44.

Prefix: Click to enter text.

Last Name, First Name: Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

Provide a brief description of the need for a co-permittee: Click to enter text.

#### C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of Administrative Report 1.0. A-1

#### **Application Contact Information (Instructions Page 27)** Section 4.

This is the person(s) TCEQ will contact if additional information is needed about this application. Provide a contact for administrative questions and technical questions.

A. Prefix: Mr.

Last Name, First Name: Jeff Goebel

Title: Business Development

Credential: Click to enter text.

Organization Name: <u>Undine Texas Environmental</u>, <u>LLC</u>

Mailing Address: 17681 Telge Rd

City, State, Zip Code: Cypress Texas 77429

Phone No.: 713-724-9321

E-mail Address: jgoebel@undinellc.com

Check one or both:

 $\boxtimes$ **Administrative Contact**   $\boxtimes$ **Technical Contact** 

**B.** Prefix: Click to enter text.

Last Name, First Name: Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

Organization Name: Click to enter text.

Mailing Address: Click to enter text.

City, State, Zip Code: Click to enter text.

Phone No.: Click to enter text.

E-mail Address: Click to enter text.

Check one or both:

**Administrative Contact** 

**Technical Contact** 

#### **Permit Contact Information (Instructions Page 27)** Section 5.

Provide the names and contact information for two individuals that can be contacted throughout the permit term.

A. Prefix: Ms

Last Name, First Name: Carey Thomas

Title: VP

Credential: Click to enter text.

Organization Name: Undine Texas Environmental, LLC

Mailing Address: 17681 Telge Rd

City, State, Zip Code: Cypress Texas 77429

Phone No.: <u>713-554-7820</u>

E-mail Address: cthomas@undinellc.com

B. Prefix: Mr.

Last Name, First Name: Andy Thomas

Title: VP

Credential: Click to enter text.

Organization Name: Undine Texas Environmental, LLC

Mailing Address: 17681 Telge Rd

City, State, Zip Code: Cypress Texas 77429

Phone No.: 713-554-7820

E-mail Address: athomas@undinellc.com

#### **Billing Contact Information (Instructions Page 27)** Section 6.

The permittee is responsible for paying the annual fee. The annual fee will be assessed to permits in effect on September 1 of each year. The TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed (using form TCEQ-20029).

Prefix: Ms

Last Name, First Name: Carey Thomas

Title: VP

Credential: Click to enter text.

Organization Name: Undine Texas Environmental, LLC

Mailing Address: 17681 Telge Rd

City, State, Zip Code: Cypress Texas 77429

Phone No.: 713-554-7820

E-mail Address: cthomas@undinellc.com

#### Section 7. DMR/MER Contact Information (Instructions Page 27)

Provide the name and complete mailing address of the person delegated to receive and submit Discharge Monitoring Reports (DMR) (EPA 3320-1) or maintain Monthly Effluent Reports (MER).

Prefix: Ms

Last Name, First Name: Carey Thomas

Title: VP

Credential: Click to enter text.

Organization Name: Undine Texas Environmental, LLC

Mailing Address: 17681 Telge Rd

City, State, Zip Code: Cypress Texas 77429

Phone No.: <u>713-554-7820</u>

E-mail Address: cthomas@undinellc.com

#### Section 8. Public Notice Information (Instructions Page 27)

#### A. Individual Publishing the Notices

Prefix: Mr.

Last Name, First Name: Jeff Goebel

Title: Business Development

Credential: Click to enter text.

Organization Name: Undine Texas Environmental, LLC

Mailing Address: 17681 Telge Rd

City, State, Zip Code: Cypress Texas 77429

Phone No.: 713-724-9321

E-mail Address: jgoebel@undinellc.com

	Pa	ckage		
	Inc	dicate by a check ma	rk the pre	ferred method for receiving the first notice and instructions:
	$\boxtimes$	E-mail Address		
		Fax		
		Regular Mail		
C.	Co	ntact permit to be li	isted in th	ne Notices
	Pre	efix: <u>Mr.</u>		Last Name, First Name: <u>Jeff Goebel</u>
	Tit	le: <u>Business Developm</u>	nent	Credential: Click to enter text.
	Or	ganization Name: <u>Un</u>	idine Texas	s Environmental, LLC
	Ma	ailing Address: <u>17681</u>	Telge Rd	City, State, Zip Code: Cypress Texas 77429
	Ph	one No.: <u>713-724-932</u> 1	<u>1</u>	E-mail Address: jgoebel@undinellc.com
D.	Pu	blic Viewing Inform	ation	
		the facility or outfall unty must be provide		in more than one county, a public viewing place for each
	Pu	blic building name: <u>N</u>	<u> Melanee S</u>	Smith Memorial Library`
	Lo	cation within the bui	lding: Clic	ck to enter text.
	Ph	ysical Address of But	ilding: <u>10</u> 1	18 Saunders St
	Cit	y: <u>Waller</u>		County: Waller
	Co	ntact (Last Name, Fir	rst Name):	Click to enter text.
	Ph	one No.: <u>936-372-396</u>	<u>1</u> Ext.: Clic	ck to enter text.
E.	Bil	ingual Notice Requi	rements	
		is information <mark>is req</mark> odification, and rene	The second secon	new, major amendment, minor amendment or minor cations.
	be	TO STATE - STATE (STATE) 이 전에 되었다면 하는 것이 되었다면 보고 있다면 하는 것이 되는데 되었다면 보다.	struction	only used to determine if alternative language notices will s on publishing the alternative language notices will be in
	ob			dinator at the nearest elementary and middle schools and to determine whether an alternative language notices are
	1.			am required by the Texas Education Code at the elementary he facility or proposed facility?
			□ No	
		If <b>no</b> , publication of below.	an altern	ative language notice is not required; <b>skip to</b> Section 9
	2.	Are the students what a bilingual education		either the elementary school or the middle school enrolled in a at that school?
			F G	

B. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit

848	3.	Do the locatio	students at n?	these	schools	attend	a bilingual	l educa	tion prog	ram a	t another
			Yes	$\boxtimes$	No						
	4.		the school b out of this r							gram l	out the school has
			Yes	$\boxtimes$	No						
	5.		nswer is <b>yes</b> ed. Which lan								tive language are
F.	Pla	in Lang	guage Summ	ary 7	Template						
	Co	mplete	the Plain Lar	iguag	ge Summa	ry (TCE	Q Form 2	0972) a	and includ	de as a	ın attachment.
	At	tachme	nt: <u>A-2</u>								
G.	Pu	blic Inv	olvement Pl	an F	orm						
						n Form	(TCEO For	rm 209	60) for ea	ach ap	plication for a
			it or major a								
	At	tachme	nt: <u>A-3</u>								
	100								- 0		
Se	cti	on 9.	Regulat Page 29		entity a	nd Pe	rmitted	Site	Informa	ation	(Instructions
A.			is currently 1 N Click to e			CEQ, pr	ovide the	Regula	ited Entity	y Num	ber (RN) issued to
	Sea the	arch the e site is	TCEQ's Cen currently reg	tral F gulate	Registry at ed by TCE	http:/ Q.	/www15.to	ceq.tex	as.gov/cr	pub/	to determine if
B.	Na	me of p	roject or site	e (the	name kn	own by	the comm	nunity	where loc	ated):	
	Ma	rigold W	astewater Tre	eatme	nt Facility						
C.	Ow	mer of t	reatment fac	cility:	Undine T	exas En	<u>vironmenta</u>	al, LLC			
	Ow	mership	of Facility:		Public	$\boxtimes$	Private		Both		Federal
D.	Ow	mer of l	and where to	reatn	ient facili	ty is or	will be:				
	Pre	efix: Clic	ck to enter te	ext.	Las	t Name	, First Nan	ne: <u>Unc</u>	line Texas	Enviro	onmental, LLC
	Tit	le: Click	to enter tex	t.	Cre	dential	: Click to e	enter to	ext.		
	Or	ganizati	on Name: <u>Uı</u>	ndin	e Texas E	nviron	mental, L	LC			
	Ma	iling Ad	ldress: <u>17681</u>	Telge	Rd		City, State	, Zip C	ode: <u>Cypr</u> e	ess Tex	as 77429
	Ph	one No.:	713-554-782	<u>o</u>	E-r	nail Ad	dress: ctho	omas@	undinellc.c	com	
			owner is not or deed reco						or co-ap	plican	t, attach a lease
		Attach	ment: Click t	to en	ter text.						

E.	Owner of effluent disposal site:	
	Prefix: Click to enter text.	Last Name, First Name: Click to enter text.
	Title: Click to enter text.	Credential: Click to enter text.
	Organization Name: Click to ente	er text.
	Mailing Address: Click to enter to	ext. City, State, Zip Code: Click to enter text.
	Phone No.: Click to enter text.	E-mail Address: Click to enter text.
	If the landowner is not the same agreement or deed recorded ease	person as the facility owner or co-applicant, attach a lease ement. See instructions.
	Attachment: Click to enter te	xt.
F.	Owner sewage sludge disposal si property owned or controlled by	te (if authorization is requested for sludge disposal on the applicant)::
	Prefix: Click to enter text.	Last Name, First Name: Click to enter text.
	Title: Click to enter text.	Credential: Click to enter text.
	Organization Name: Click to ente	er text.
	Mailing Address: Click to enter to	ext. City, State, Zip Code: Click to enter text.
	Phone No.: Click to enter text.	E-mail Address: Click to enter text.
	If the landowner is not the same agreement or deed recorded ease	person as the facility owner or co-applicant, attach a lease ement. See instructions.
	Attachment: Click to enter te	xt.
0	il in Eppen il	
		ge Information (Instructions Page 31)
A.	Is the wastewater treatment facil	ity location in the existing permit accurate?
	□ Yes □ No	
		on, please give an accurate description:  o.8 miles sw of the intersection of Mathis Rd and Betka Rd
	The facility will be located approx.	0.6 lilles sw of the litter section of Mathis Rd and Betra Rd
	A Al	
В.		the discharge route(s) in the existing permit correct?
	☐ Yes ☐ No	
		ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30
	From the facility thence to Mound	Creek
	City nearest the outfall(s): Waller	
	County in which the outfalls(s) is	/are located: <u>Waller</u>
C.	Is or will the treated wastewater a flood control district drainage	discharge to a city, county, or state highway right-of-way, or ditch?
	□ Yes □ No	

i.	If <b>yes</b> , indicate by a check mark if:
	$\square$ Authorization granted $\square$ Authorization pending
	For <b>new and amendment</b> applications, provide copies of letters that show proof of contact and the approval letter upon receipt.
	Attachment: Click to enter text.
D.	For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within $100$ statute miles downstream of the point(s) of discharge: $\underline{NA}$
Se	ction 11. TLAP Disposal Information (Instructions Page 32)
A.	For TLAPs, is the location of the effluent disposal site in the existing permit accurate?
	□ Yes ⊠ No
	If <b>no, or a new or amendment permit application</b> , provide an accurate description of the disposal site location:
	Click to enter text.
B.	City nearest the disposal site: Click to enter text.
C.	County in which the disposal site is located: Click to enter text.
D.	For <b>TLAPs</b> , describe the routing of effluent from the treatment facility to the disposal site:
	Click to enter text.
E.	For <b>TLAPs</b> , please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Click to enter text.
Se	ction 12. Miscellaneous Information (Instructions Page 32)
A.	Is the facility located on or does the treated effluent cross American Indian Land?
	□ Yes ⊠ No
B.	If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?
	□ Yes □ No ⊠ Not Applicable
	If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.
	Click to enter text.

C.	Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?
	□ Yes ⊠ No
	f yes, list each person formerly employed by the TCEQ who represented your company and vas paid for service regarding the application: Click to enter text.
D.	Do you owe any fees to the TCEQ?
	□ Yes ⊠ No
	f <b>yes</b> , provide the following information:
	Account number: Click to enter text.
	Amount past due: Click to enter text.
E.	Do you owe any penalties to the TCEQ?
	□ Yes ⊠ No
	f <b>yes</b> , please provide the following information:
	Enforcement order number: Click to enter text.
	Amount past due: Click to enter text.
Ca	
26	tion 13. Attachments (Instructions Page 33)
	cate which attachments are included with the Administrative Report. Check all that apply:
Inc	cate which attachments are included with the Administrative Report. Check all that apply: Lease agreement or deed recorded easement, if the land where the treatment facility is
Inc	cate which attachments are included with the Administrative Report. Check all that apply: Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.
Inc	cate which attachments are included with the Administrative Report. Check all that apply:  Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.  Original full-size USGS Topographic Map with the following information:  Applicant's property boundary  Treatment facility boundary  Labeled point of discharge for each discharge point (TPDES only)  Highlighted discharge route for each discharge point (TPDES only)  Onsite sewage sludge disposal site (if applicable)  Effluent disposal site boundaries (TLAP only)  New and future construction (if applicable)  1 mile radius information  3 miles downstream information (TPDES only)
Inc	cate which attachments are included with the Administrative Report. Check all that apply:  Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.  Original full-size USGS Topographic Map with the following information:  Applicant's property boundary  Treatment facility boundary  Labeled point of discharge for each discharge point (TPDES only)  Highlighted discharge route for each discharge point (TPDES only)  Onsite sewage sludge disposal site (if applicable)  Effluent disposal site boundaries (TLAP only)  New and future construction (if applicable)  1 mile radius information  3 miles downstream information (TPDES only)  All ponds.

#### Section 14. Signature Page (Instructions Page 34)

If co-applicants are necessary, each entity must submit an original, separate signature page.

Permit Number: Click to enter text.

Applicant: Undine Texas Environmental, LLC

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code § 305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signatory name (typed or printed): <u>Vance Tillman</u>
Signatory title: Chief Financial Officer
Signature: / line Date: 07/17/24
(Use blue ink)
Subscribed and Sworn to before me by the said Vance Tillman on this
Notary Public  HOLLY H. MCCLAREN Notary Public, State of Texas Comm. Expires 06-18-2027 Notary Public  SEAL

#### DOMESTIC WASTEWATER PERMIT APPLICATION **ADMINISTRATIVE REPORT 1.0**

The following information is required for new and amendment applications.

#### Section 1. Affected Landowner Information (Instructions Page 36)

A.		icate by a check mark that the landowners map or drawing, with scale, includes the owing information, as applicable:
	$\boxtimes$	The applicant's property boundaries
	$\boxtimes$	The facility site boundaries within the applicant's property boundaries
		The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
		The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
	$\boxtimes$	The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
	$\boxtimes$	The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
		The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
		The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
		The property boundaries of all landowners surrounding the effluent disposal site
		The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
		The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located
В.	2000	Indicate by a check mark that a separate list with the landowners' names and mailing resses cross-referenced to the landowner's map has been provided.
C.	Indi	icate by a check mark in which format the landowners list is submitted:
	[	□ Four sets of labels
D.	Prov	vide the source of the landowners' names and mailing addresses: <u>CAD</u>
E.		required by <i>Texas Water Code § 5.115</i> , is any permanent school fund land affected by application?
	[	□ Yes ⊠ No

D.

E.

4	100	es, provide the location and foreseeable impacts and effects this application has on the d(s):
	Cli	ick to enter text.
1000		
0,000		on 2. Original Photographs (Instructions Page 38)
		e original ground level photographs. Indicate with checkmarks that the following ation is provided.
	$\boxtimes$	At least one original photograph of the new or expanded treatment unit location
		At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.
		At least one photograph of the existing/proposed effluent disposal site
	$\boxtimes$	A plot plan or map showing the location and direction of each photograph
Sa	ctic	on 3. Buffer Zone Map (Instructions Page 38)
	1750 960	
Α.	info	fer zone map. Provide a buffer zone map on $8.5 \times 11$ -inch paper with all of the following ormation. The applicant's property line and the buffer zone line may be distinguished by ag dashes or symbols and appropriate labels.
		<ul><li>The applicant's property boundary;</li><li>The required buffer zone; and</li></ul>
	,	Each treatment unit; and
	9	<ul> <li>The distance from each treatment unit to the property boundaries.</li> </ul>
В.		fer zone compliance method. Indicate how the buffer zone requirements will be met.
		☑ Ownership
	į	□ Restrictive easement
	İ	□ Nuisance odor control
	į	□ Variance
C.		uitable site characteristics. Does the facility comply with the requirements regarding uitable site characteristic found in 30 TAC § 309.13(a) through (d)?
		⊠ Yes □ No

# DOMESTIC WASTEWATER PERMIT APPLICATION SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

This form applies to TPDES permit applications only. Complete and attach the Supplemental Permit information Form (SPIF) (TCEQ Form 20971).

Attachment: A-8

#### WATER QUALITY PERMIT

#### PAYMENT SUBMITTAL FORM

Use this form to submit the Application Fee, if the mailing the payment.

- Complete items 1 through 5 below.
- Staple the check or money order in the space provided at the bottom of this document.
- Do Not mail this form with the application form.
- Do not mail this form to the same address as the application.
- Do not submit a copy of the application with this form as it could cause duplicate permit entries.

#### Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

Texas Commission on Environmental Quality

Financial Administration Division

Cashier's Office, MC-214

P.O. Box 13088

Austin, Texas 78711-3088

BY OVERNIGHT/EXPRESS MAIL

Texas Commission on Environmental Quality

Financial Administration Division

Cashier's Office, MC-214

12100 Park 35 Circle

Austin, Texas 78753

Fee Code: WQP Waste Permit No: Click to enter text.

1. Check or Money Order Number: 9200

2. Check or Money Order Amount: 850.00

3. Date of Check or Money Order: 7/16/2024

4. Name on Check or Money Order: Undine Operating, LLC

5. APPLICATION INFORMATION

Name of Project or Site: Marigold WWTP

Physical Address of Project or Site: Click to enter text.

If the check is for more than one application, attach a list which includes the name of each Project or Site (RE) and Physical Address, exactly as provided on the application.

PAY TO THE OPERATION Environmental Quality

PAY TO THE OPERATOR Texas Commission on Environmental Quality

PAY TO THE Texas Commission on Environmental Quality

DOLLARS

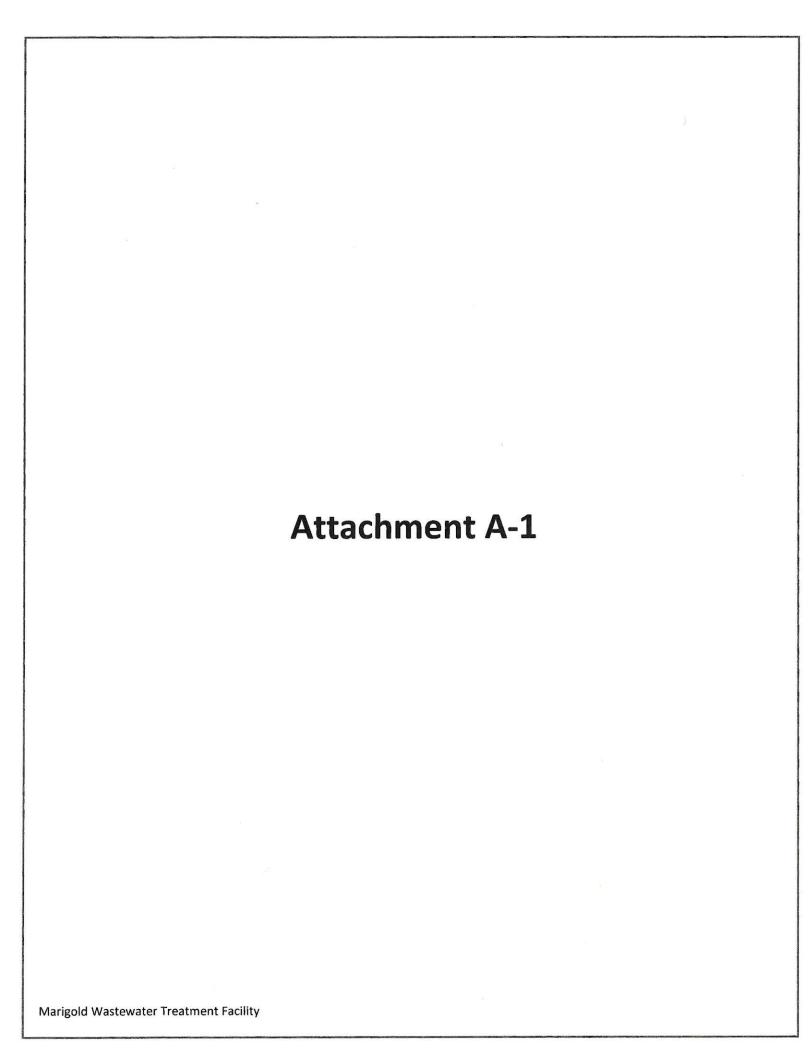
Texas Commission on Environmental Quality

Cashier's Office, MC-214 PO Box 13088 Austin, TX 78711-3088

MEMO

SO Wallan

Marigold WWTP-New development permit application fee





# **TCEQ Core Data Form**

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

#### **SECTION I: General Information**

1. Reason for Submission (If other is checked please describe in space provided.)

	(Core Data	Form should be subm.	ttea with the r	enewal form	)		Other				
2. Customer Reference Number (if issued)				Follow this link to search for CN or RN numbers in			3. Regulated Entity Reference Number (if issued)				
CN 604519330				Central	Registry**	RN	RN				
ECTIO	N II:	Customer	Inforn	natior	<u>1</u>						
4. General C	ustomer li	nformation	5. Effective	Date for C	ustomer Inf	ormation	Updates (mm/d	d/yyyy)			
☐ New Custo	mer	⊠ u	  pdate to Custo	mer Informa	ation	Cha	inge in Regulated E	ntity Owne	ership		
 Change in L	egal Name	(Verifiable with the Te	xas Secretary o	of State or Te	xas Comptrol	er of Publ	ic Accounts)				
-1 0 :									-		
		ubmitted here may		utomatica	lly based or	what is	current and activ	ve with th	ie Texas Secre	tary of State	
SOS) or Texa	is Comptro	oller of Public Acco	ints (CPA).								
6. Customer	Legal Nan	ne (If an individual, pr	nt last name fi	rst: eg: Doe,	John)		If new Custome	r, enter pre	evious Customer	below:	
Undine Texas E	Environmen	tal, LLC									
7. TX SOS/CF	A Filing N	umber	8. TX State	Tax ID (11	digits)		9. Federal Tax	(ID	10. DUNS No	umber (if	
	•						(0.11.1.)		applicable)	.,	
801768069			3205071727	4			(9 digits)				
							46316881				
11. Type of C	ustomer.	Corpora	tion			☐ Indivi	idual	Partne	rship: Gener	al 🗍 Limited	
		County  Federal		Other			Proprietorship	Otl			
			LOCAI State	- Other						tod2	
12. Number	or Employ	ces						entry Ow	ned and Opera	ateu:	
0-20	21-100 [	101-250 251	500 501	and higher			☐ Ves	☐ No			
14. Custome	r Role (Pro	posed or Actual) – as	t relates to the	Regulated F	ntity listed or	this form	Please check one	of the follo	wina		
								, ,,,,,,,,			
□Owner	al Lieure	Operator		vner & Oper			Other     Other	er:			
Occupation	ai Licensee	Responsible Pa	пту 📙	VCP/BSA App	piicant						
	17681 Te	lge Rd									
1 C BAcilina		BALLY LANGE TO BE									
15. Mailing				_							
		C		State	TX	ZIP	77429		ZIP + 4		
	City	Cypress		1							
15. Mailing Address:			USA)		17	E-Mail A	ddress (if applica	ble)			
Address:		formation (if outside	USA)				address (if applica	ble)			

TCEQ-10400 (11/22) Page 1 of 3

#### **SECTION III: Regulated Entity Information**

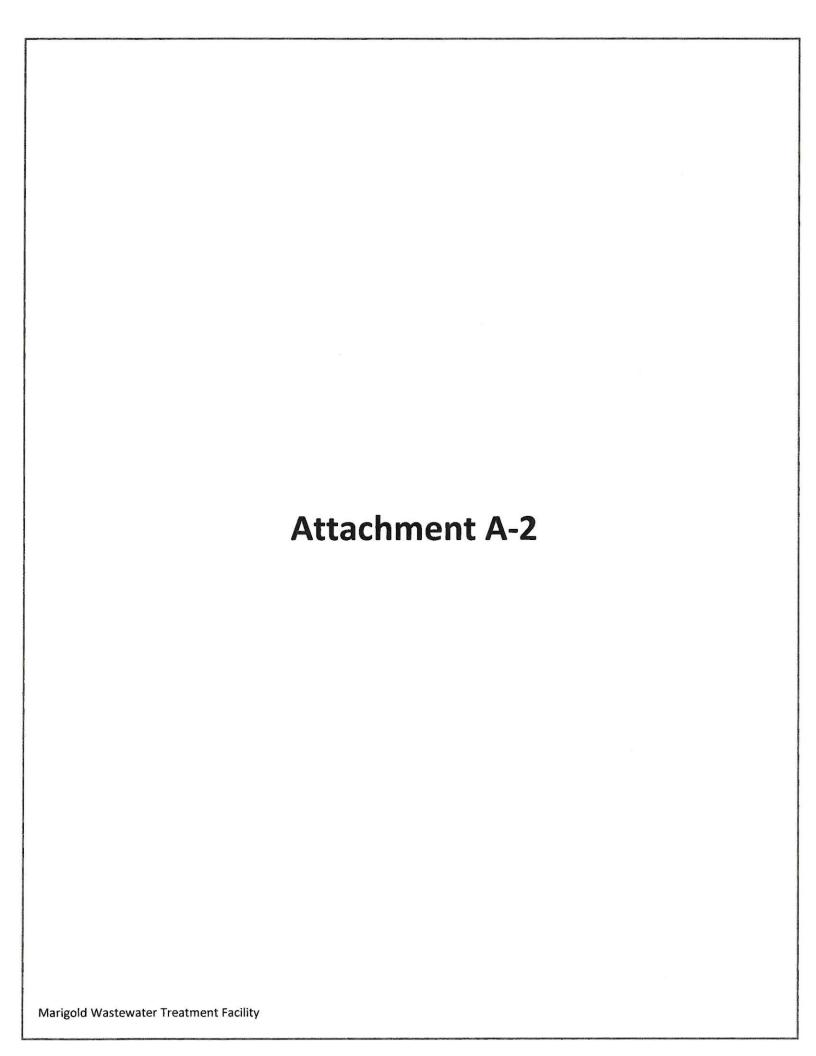
New Regulated Entity		Regulated Entity			Entity Inform			
The Regulated Entity No as Inc, LP, or LLC).	ıme submitte	ed may be upda	nted, in order to mo	eet TCEQ Co	re Data Sta	ndards (removal of	organization	nal endings such
22. Regulated Entity Na	me (Enter nan	ne of the site whe	re the regulated action	on is taking pl	ace.)			
Marigold Wastewater Treat	ment Facility							
23. Street Address of the Regulated Entity:								
(No PO Boxes)	City		State		ZIP		ZIP + 4	T
24. County	Waller							
		If no Stre	et Address is prov	ided, fields	25-28 are re	equired.	an de contractor de la	
25. Description to Physical Location:	The facility	will be located ap	oprox. 0.8 miles sw of	the intersect	ion of Mathis	Rd and Betka Rd		
26. Nearest City						State	Nea	rest ZIP Code
Waller						TX	774	84
Latitude/Longitude are used to supply coordina					Data Stando	ards. (Geocoding of	the Physical	Address may be
27. Latitude (N) In Decin	nal:	30° 0'43.22"N		28. 1	Longitude (\	V) In Decimal:	95°54'54	.88"W
Degrees	Minutes		Seconds	Degr	ees	Minutes		Seconds
29. Primary SIC Code (4 digits)		Secondary SIC	Code	<b>31. Prima</b> (5 or 6 dig	ry NAICS Co	ode 32. Se (5 or 6	condary NAI	CS Code
4952								
33. What is the Primary	Business of t	this entity? (D	o not repeat the SIC o	or NAICS desc	ription.)		1	
Water and Wastewater Utili	ties							
34. Mailing	17681 Telg	ge Rd						
Address.	City	Cypress	State	тх	ZIP	77429	ZIP+4	
35. E-Mail Address:	ctho	omas@undinellc	.com				1100	
36. Telephone Number			37. Extension or	Code	38. F	ax Number (if applic	cable)	

**39. TCEQ Programs and ID Numbers** Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

TCEQ-10400 (11/22) Page 2 of 3

☐ Dam Safety ☐ Municipal Solid Waste ☐ Sludge		Districts	Edwards Aquif	fer	Emissions Inventory Air		☐ Industrial Hazardous Wast
		New Source Review Air	☐ Petroleu		eum Storage Tank	□ PWS	
		Storm Water	Storm Water		☐ Tires		Used Oil
☐ Voluntary Clea	nup	<b>⊠</b> Wastewater	☐ Wastewater A	griculture	☐ Water	Rights	Other:
40. Name: Je 42. Telephone Nu (713) 574-5953	ff Goebel mber	43. Ext./Code	44. Fax Number		lail Addres		
	elow, I certify		ignature wledge, that the infor	mation provided	in this form	is true and complet	e, and that I have signature authori
	hehalf of the	e entity specified in Sec	tion II, Field 6 and/or	as required for the	ne updates t	o the ID numbers id	entified in field 39.
submit this form or				loh Title	: CEO	<u> </u>	
i. By my signature to submit this form on Company:  Name (In Print):		exas Environmental, LLC	7.00	Job Title	: CFO	Phone:	(713)574-5953

TCEQ-10400 (11/22) Page 3 of 3





#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

# Plain Language Summary Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Applicants should use this template to develop a plain language summary as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. Applicants may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

Fill in the highlighted areas below to describe your facility and application in plain language. Instructions and examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements.

If you are subject to the alternative language notice requirements in 30 TAC Section 39.426, you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package. For your convenience, a Spanish template has been provided below.

### ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

Undine Texaws Environmental, LLC (CN\_\_\_\_\_\_) proposes to operate Marigold Wastewater Treatment Facility (RN\_\_\_\_\_\_), a activated sludge process plant operated in the complete mix mode. The facility will be located at The facility will be located approx. 0.8 miles sw of the intersection of Mathis Rd and Betka Rd Road 902, in 10. Enter city name here, Waller County, Texas 77484. This application for a new discharge with a final phase of 0.125MGD. << For TLAP applications include the following sentence, otherwise delete:>> This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain contain five-day carbonaceous biochemical oxygen demand (CBOD $_5$ ), total suspended solids (TSS), ammonia nitrogen (NH $_3$ -N), and *Escherichia coli*.. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, aeration basins, final clarifiers, sludge digesters, and chlorine contact chambers and De chlorine contact chambers.

## PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

#### AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí /AGUAS PLUVIALES

El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no es una representación ejecutiva fedérale de la solicitud de permiso.

1. Introduzca el nombre del solicitante aquí (2. Introduzca el número de cliente aquí (es decir, CN6########).) 3. Elija del menú desplegable 4. Introduzca el nombre de la instalación aquí 5. Introduzca el número de entidad regulada aquí (es decir, RN1#######), 6. Elija del menú desplegable 7. Introduzca la descripción de la instalación aquí. La instalación 8. Elija del menú desplegable. ubicada en 9. Introduzca la ubicación aquí, en 10. Introduzca el nombre de la ciudad aquí, Condado de 11. Introduzca el nombre del condado aquí, Texas 12. Introduzca el código postal aquí. 13. Introduzca el resumen de la petición de solicitud aquí. << Para las solicitudes de TLAP incluya la siguiente oración, de lo contrario, elimine:>> Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan 14. Liste todos los contaminantes esperados aquí. 15. Introduzca los tipos de aguas residuales descargadas aquí. 16. Elija del menú desplegable tratado por 17. Introduzca una descripción del tratamiento de aguas residuales utilizado en la instalación aquí.

#### **INSTRUCTIONS**

- 1. Enter the name of applicant in this section. The applicant name should match the name associated with the customer number.
- 2. Enter the Customer Number in this section. Each Individual or Organization is issued a unique 11-digit identification number called a CN (e.g. CN123456789).
- 3. Choose "operates" in this section for existing facility applications or choose "proposes to operate" for new facility applications.
- 4. Enter the name of the facility in this section. The facility name should match the name associated with the regulated entity number.
- 5. Enter the Regulated Entity number in this section. Each site location is issued a unique 11-digit identification number called an RN (e.g. RN123456789).
- 6. Choose the appropriate article (a or an) to complete the sentence.
- 7. Enter a description of the facility in this section. For example: steam electric generating facility, nitrogenous fertilizer manufacturing facility, etc.
- 8. Choose "is" for an existing facility or "will be" for a new facility.
- 9. Enter the location of the facility in this section.
- 10. Enter the City nearest the facility in this section.
- 11. Enter the County nearest the facility in this section.
- 12. Enter the zip code for the facility address in this section.
- 13. Enter a summary of the application request in this section. For example: renewal to discharge 25,000 gallons per day of treated domestic wastewater, new application to discharge process wastewater and stormwater on an intermittent and flow-variable basis, or major amendment to reduce monitoring frequency for pH, etc. If more than one outfall is included in the application, provide applicable information for each individual outfall.
- 14. List all pollutants expected in the discharge from this facility in this section. If applicable, refer to the pollutants from any federal numeric effluent limitations that apply to your facility.
- 15. Enter the discharge types from your facility in this section (e.g., stormwater, process wastewater, once through cooling water, etc.)
- 16. Choose the appropriate verb tense to complete the sentence.
- 17. Enter a description of the wastewater treatment used at your facility. Include a description of each process, starting with initial treatment and finishing with the outfall/point of disposal. Use additional lines for individual discharge types if necessary.

Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at <a href="https://www.wei.ac.no.nd/worden.com/

#### **Example**

#### **Individual Industrial Wastewater Application**

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

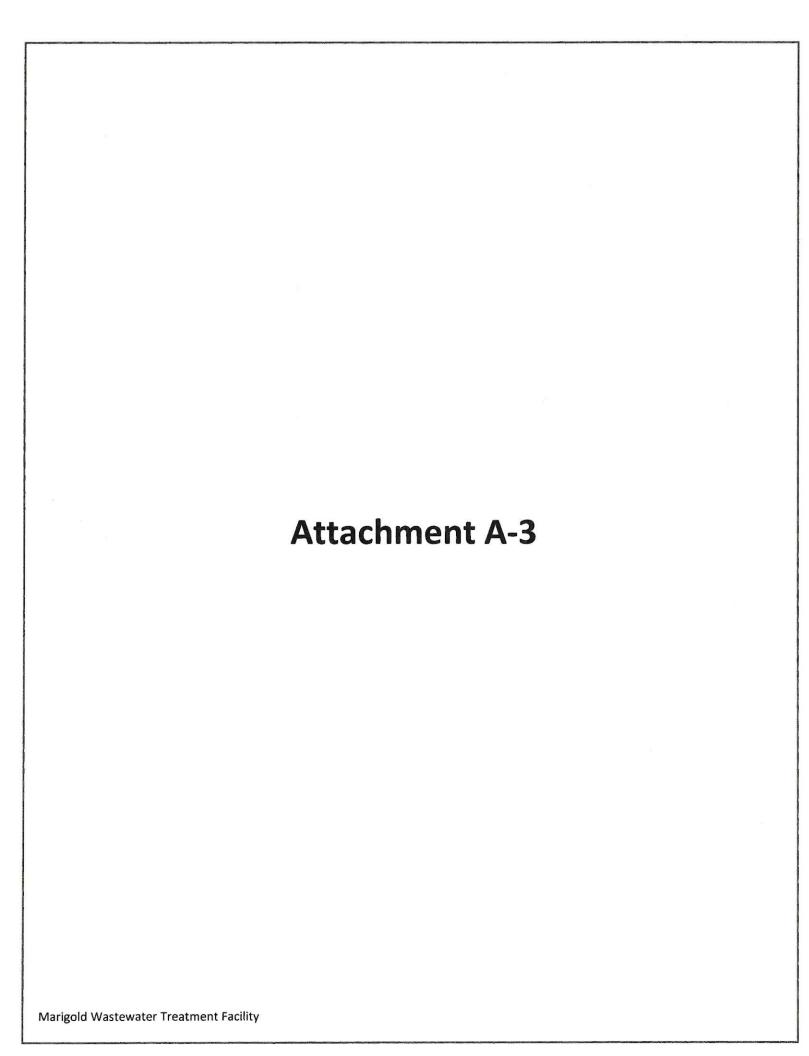
ABC Corporation (CN600000000) operates the Starr Power Station (RN10000000000), a twounit gas-fired electric generating facility. Unit 1 has a generating capacity of 393 megawatts (MWs) and Unit 2 has a generating capacity of 528 MWs. The facility is located at 1356 Starr Street, near the City of Austin, Travis County, Texas 78753.

This application is for a renewal to discharge 870,000,000 gallons per day of once through cooling water, auxiliary cooling water, and also authorizes the following waste streams monitored inside the facility (internal outfalls) before it is mixed with the other wastewaters authorized for discharge via main Outfall 001, referred to as "previously monitored effluents" (low-volume wastewater, metal-cleaning waste, and stormwater (from diked oil storage area yards and storm drains)) via Outfall 001. Low-volume waste sources, metal-cleaning waste, and stormwater drains on a continuous and flow-variable basis via internal Outfall 101.

The discharge of once through cooling water via Outfall 001 and low-volume waste and metal-cleaning waste via Outfall 101 from this facility is subject to federal effluent limitation guidelines at 40 CFR Part 423. The pollutants expected from these discharges based on 40 CFR Part 423 are: free available chlorine, total residual chlorine, total suspended solids, oil and grease, total iron, total copper, and pH. Temperature is also expected from these discharges. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0.

Cooling water and boiler make-up water are supplied by Lake Starr Reservoir. The City of Austin municipal water plant (CN600000000, PWS 00000) supplies the facility's potable water and serves as an alternate source of boiler make-up water. Water from the Lake Starr Reservoir is withdrawn at the intake structure and treated with sodium hypochlorite to prevent biofouling and sodium bromide as a chlorine enhancer to improve efficacy and then passed through condensers and auxiliary equipment on a once-through basis to cool equipment and condense exhaust steam.

Low-volume wastewater from blowdown of boiler Units 1 and 2 and metal-cleaning wastes receive no treatment prior to discharge via Outfall 101. Plant floor and equipment drains and stormwater runoff from diked oil storage areas, yards, and storm drains are routed through an oil and water separator prior to discharge via Outfall 101. Domestic wastewater, blowdown, and backwash water from the service water filter, clarifier, and sand filter are routed to the Starr Creek Domestic Sewage Treatment Plant, TPDES Permit No. WQ0010000001, for treatment and disposal. Metal-cleaning waste from equipment cleaning is generally disposed of off-site.



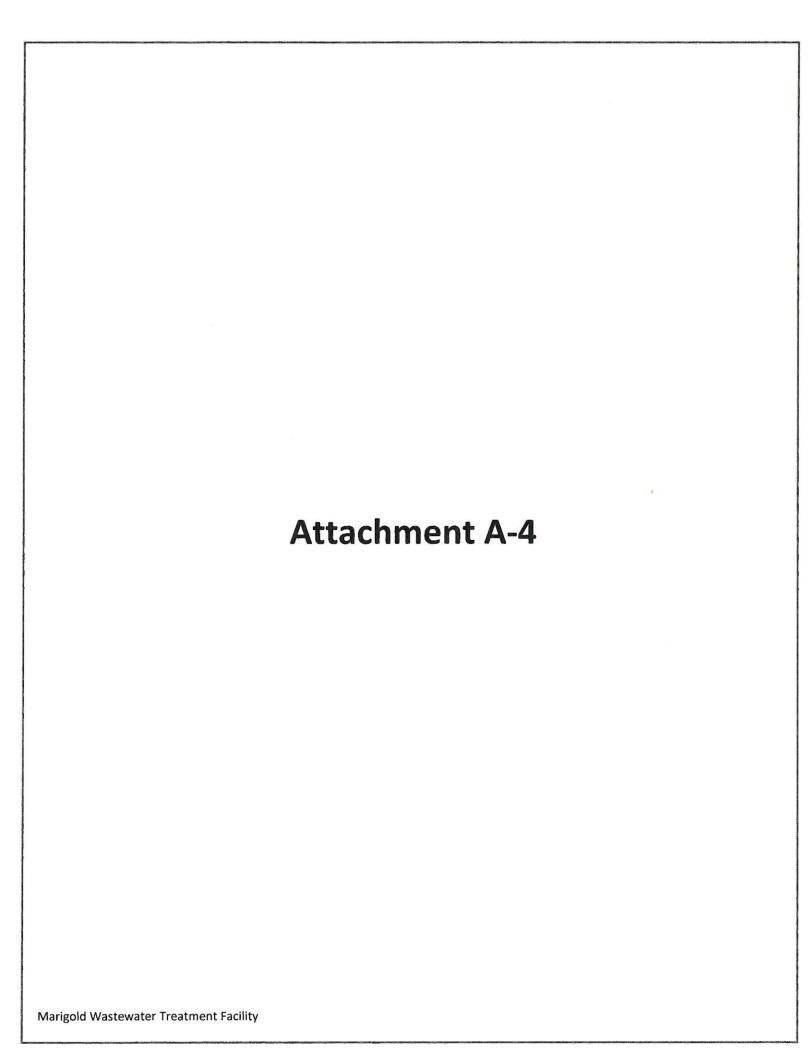


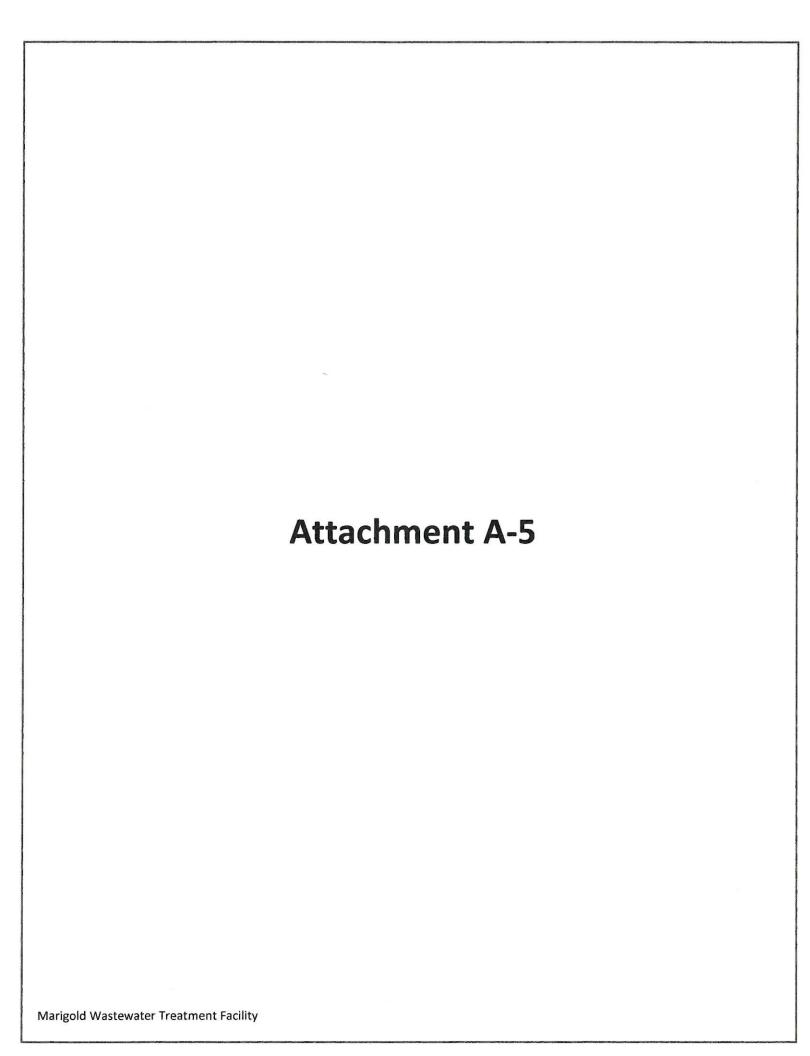
#### Public Involvement Plan Form for Permit and Registration Applications

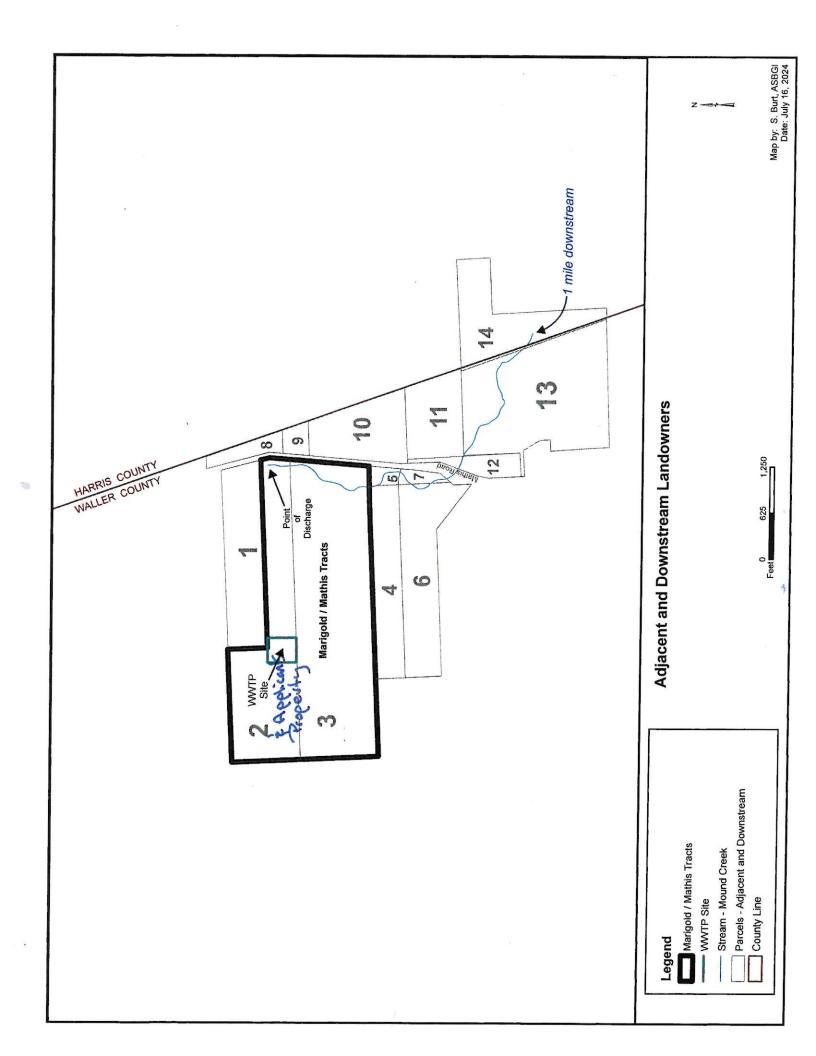
The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening
New Permit or Registration Application  New Activity - modification, registration, amendment, facility, etc. (see instructions)
If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.
Section 2. Secondary Screening
Requires public notice,
Considered to have significant public interest, <u>and</u>
Located within any of the following geographical locations:
<ul> <li>Austin</li> <li>Dallas</li> <li>Fort Worth</li> <li>Houston</li> <li>San Antonio</li> <li>West Texas</li> <li>Texas Panhandle</li> <li>Along the Texas/Mexico Border</li> <li>Other geographical locations should be decided on a case-by-case basis</li> </ul>
If all the above boxes are not checked, a Public Involvement Plan is not necessary.  Stop after Section 2 and submit the form.
Public Involvement Plan not applicable to this application. Provide <b>brief</b> explanation.
This application is not for an industry which typically has significant public interest







#### WALLER TX 77484 PO BOX 1557 10. HORACE DELTON LAMONTE

3331 DAMICO ST #903 11. SCHWARTZ JUDITH L

**61077 XT NOTSUOH** 

7757 HIDDEN TRAIL

80877 XT NAYAB

JIART NADDIH T&TT 14. REESE SANDRA RUTH

80877 XT NAYA8

13. REESE SANDRA RUTH

3331 DAMICO ST #903

12. SCHWARTZ JUDITH L

**61077 XT NOTSUOH** 

**GR SIHTAM 1S881** 1. SUKHANI MANAGEMENT LLC

ADJACENT AND DOWNSTREAM PROPERTIES

WALLER TX 77484

BY MAP NUMBER

HOCKLEY TX 77447 PO BOX 27 FOR GLENN A HEGAR 2. HEGAR A B TRUST

HOCKLEY TX 77447 PO BOX 27 FOR GLENN A HEGAR 3. HEGAR A B TRUST

**869 XO8 O4** BRILEY BILLY C & KATHY & ALISHA K 4. BRILEY KRISTINA

869 XO8 Od BRILEY BILLY C & KATHY & ALISHA K 5. BRILEY KRISTINA

**GA SIHTAM E8621** MITSON DYMON KENNETH

7. WILSON DAMON KENNETH

WALLER TX 77484

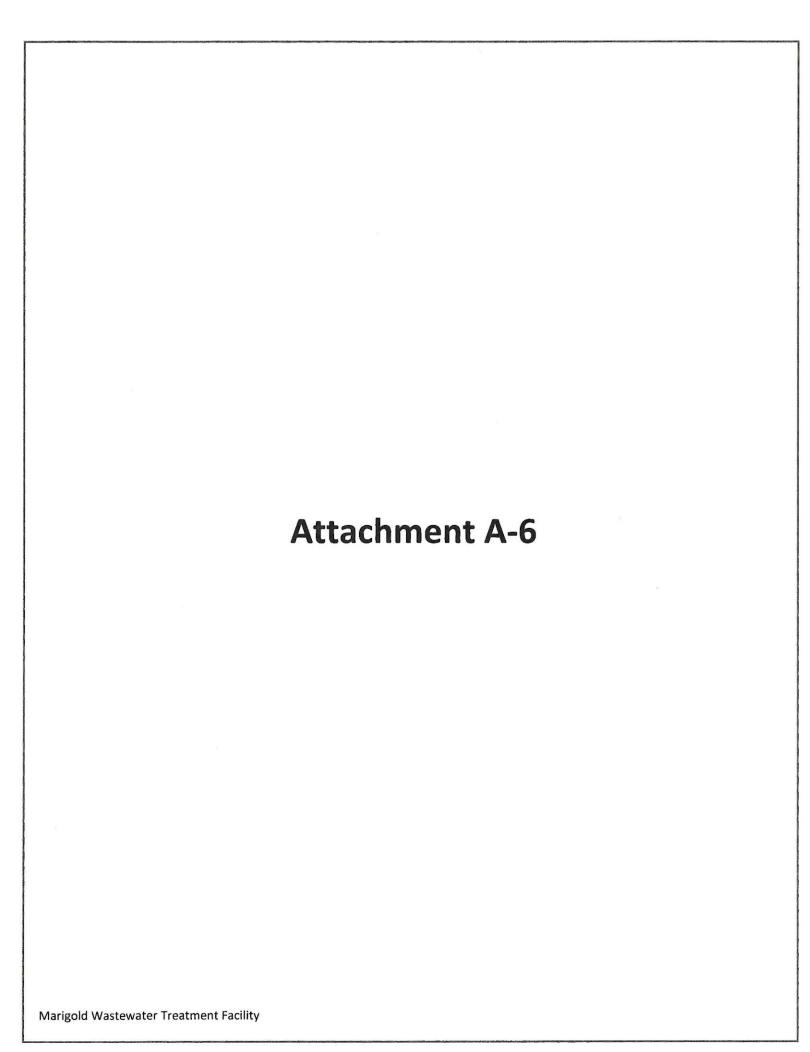
WALLER TX 77484

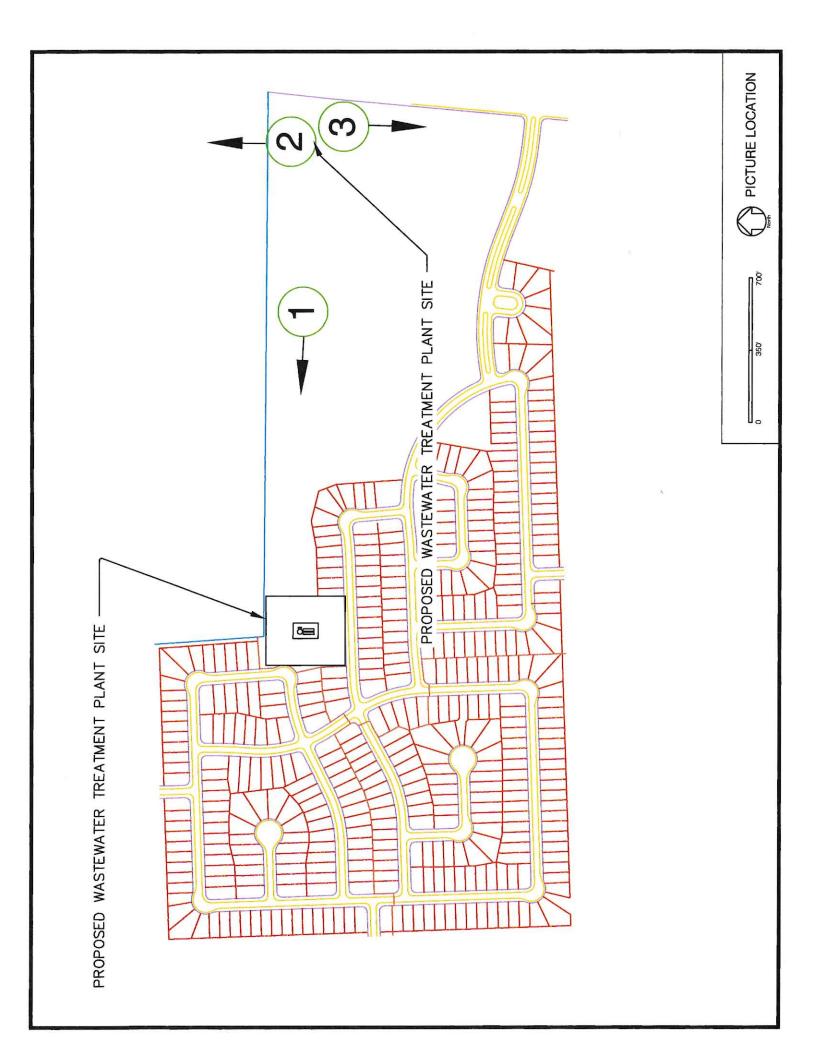
WALLER TX 77484

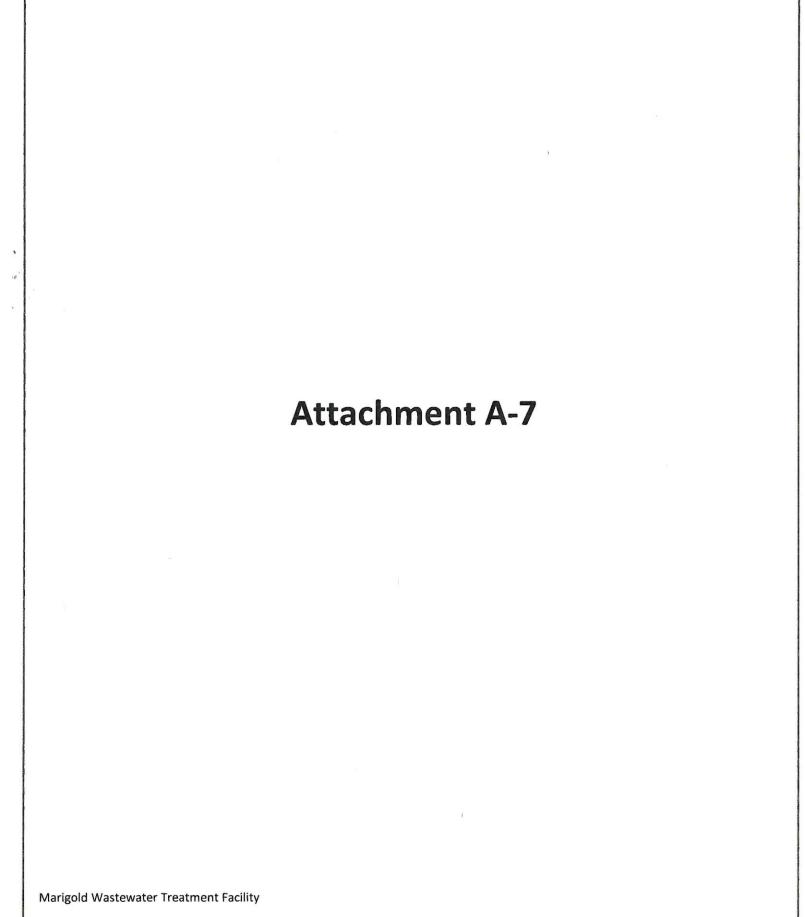
WALLER TX 77484 **GR SIHTAM E8621** 

WALLER TX 77484 PO BOX 1618 8. LEWIS MARNA KAY SHOFNAR

KATY TX 77494 1211 LAKE GRAYSON DR MERIT NDT LLC



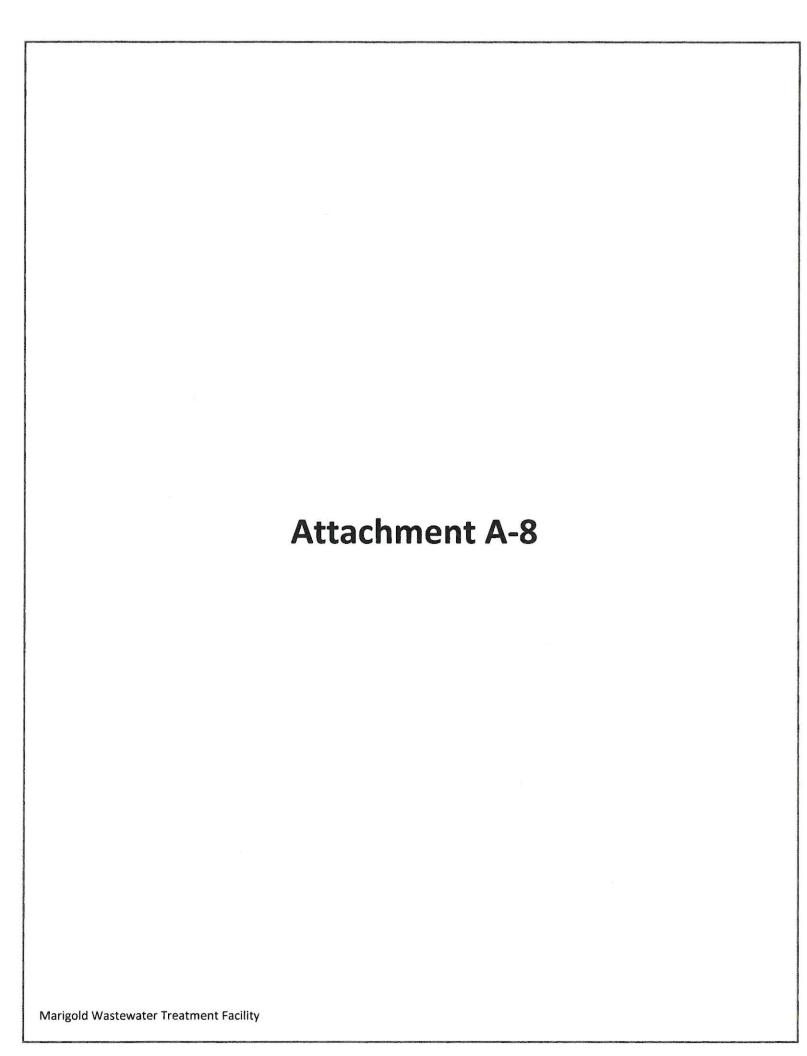




30' 40'

30' 40'

PHASE III BUFFERZONE



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

## FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:	
Application type:RenewalMajor Am	lendmentNinor AmendmentNew
County:	Segment Number:
Admin Complete Date:	-
Agency Receiving SPIF:	
Texas Historical Commission	U.S. Fish and Wildlife
Texas Parks and Wildlife Department	U.S. Army Corps of Engineers
This form applies to TPDES permit application	s only. (Instructions, Page 53)
Complete this form as a separate document. TC our agreement with EPA. If any of the items are is needed, we will contact you to provide the infeach item completely.	EQ will mail a copy to each agency as required by not completely addressed or further information ormation before issuing the permit. Address
Do not refer to your response to any item in the attachment for this form separately from the Adapplication will not be declared administratively completed in its entirety including all attachmentary be directed to the Water Quality Division's email at	

	Provide the name, address, phone and fax number of an individual that can be contacted answer specific questions about the property.	d to
	Prefix (Mr., Ms., Miss): Mr	
	First and Last Name: <u>Jeff Goebel</u>	
	Credential (P.E, P.G., Ph.D., etc.):	
	Title: Consultant	
	Mailing Address: 32002 Pattys Landing	
	City, State, Zip Code: Magnolia TX 77354	
	Phone No.: <u>713-724-9321</u> Ext.: Fax No.:	
	E-mail Address: texaswater@sbcglobal.net	
2.	List the county in which the facility is located: <u>Johnson</u>	
3.	If the property is publicly owned and the owner is different than the permittee/applican	ıt,
	please list the owner of the property.  The property is not publicly owned	
4.	Provide a description of the effluent discharge route. The discharge route must follow the	
	of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please idea	
	the classified segment number.	•
	To Mound Creek	
5.	Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries	
	plotted and a general location map showing the project area. Please highlight the dischar	rge
	route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).	
	Provide original photographs of any structures 50 years or older on the property.	
	Does your project involve any of the following? Check all that apply.	
	☑ Proposed access roads, utility lines, construction easements	
	☐ Visual effects that could damage or detract from a historic property's integrity	
	☐ Vibration effects during construction or as a result of project design	
	Additional phases of development that are planned for the future	
	☐ Sealing caves, fractures, sinkholes, other karst features	

	☐ Disturbance of vegetation or wetlands
1.	List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):
	<u>None</u>
2.	Describe existing disturbances, vegetation, and land use:
	<u>Pasture</u>
	E FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR ENDMENTS TO TPDES PERMITS
3.	List construction dates of all buildings and structures on the property:
	Not known
4.	Provide a brief history of the property, and name of the architect/builder, if known.
	Not Known
	.d.

# THE COMMISSION OF THE PROPERTY 
#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

#### DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

For any questions about this form, please contact the Domestic Wastewater Permitting Team at 512-239-4671.

The following information is required for all renewal, new, and amendment applications.

#### Section 1. Permitted or Proposed Flows (Instructions Page 43)

#### A. Existing/Interim I Phase

Design Flow (MGD): <u>0.0625</u>

2-Hr Peak Flow (MGD): <u>0.25</u>

Estimated construction start date: 7/2025
Estimated waste disposal start date: 1/2026

#### **B.** Interim II Phase

Design Flow (MGD): Click to enter text.

2-Hr Peak Flow (MGD): Click to enter text.

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

#### C. Final Phase

Design Flow (MGD): 0.125

2-Hr Peak Flow (MGD): o.5

Estimated construction start date: 7/2027

Estimated waste disposal start date: 1/2028

#### **D.** Current Operating Phase

Provide the startup date of the facility: Click to enter text.

#### Section 2. Treatment Process (Instructions Page 43)

#### A. Current Operating Phase

Provide a detailed description of the treatment process. **Include the type of treatment plant, mode of operation, and all treatment units.** Start with the plant's head works and

finish with the point of discharge. Include all sludge processing and drying units. **If more than one phase exists or is proposed, a description of** *each phase* **must be provided.** 

Attachment T-1		- n

#### **B.** Treatment Units

In Table 1.0(1), provide the treatment unit type, the number of units, and dimensions (length, width, depth) of each treatment unit, accounting for *all* phases of operation.

#### Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)	
Attachment T-1			
ACCOUNT OF THE PROPERTY OF THE			

#### C. Process Flow Diagram

Provide flow diagrams for the existing facilities and each proposed phase of construction.

Attachment: T-2

#### Section 3. Site Information and Drawing (Instructions Page 44)

Provide the TPDES discharge outfall latitude and longitude. Enter N/A if not applicable.

Latitude: 30° 0'42.94"N

Longitude: 95°54'26.66"W

Provide the TLAP disposal site latitude and longitude. Enter N/A if not applicable.

Latitude: Click to enter text.

Longitude: Click to enter text.

Provide a site drawing for the facility that shows the following:

- The boundaries of the treatment facility;
- The boundaries of the area served by the treatment facility;
- If land disposal of effluent, the boundaries of the disposal site and all storage/holding ponds; and
- If sludge disposal is authorized in the permit, the boundaries of the land application or disposal site.

Attachment: T-3

Provide the name <b>and</b> a des  Ma <u>rigold Subdivision</u>	cription of the area s	served by the treatment	facility.
Collection System Informati each <b>uniquely owned</b> collection systems. examples.	ction system, existing Please see the instr	g and new, served by th	is facility, including
Collection System Information  Collection System Name	Owner Name	Owner Type	Population Serve
Marigold	Undine Texas Environmental, LLC	Privately Owned	0
		Choose an item.	
		Choose an item.	
		Choose an item.	
0 1 4 11 1 11 11			
	hases (Instructi		
Is the application for a rene	wal of a permit that	contains an unbuilt pha	ase or phases?
☐ Yes ☒ No			
If yes, does the existing per years of being authorized b		that has not been const	ructed within five
☐ Yes ☒ No	,		
If yes, provide a detailed dis Failure to provide sufficient recommending denial of th	it justification may	result in the Executive	
Click to enter text.			

#### Section 5. Closure Plans (Instructions Page 45)

Have any treatment units been taken out of service permanently, or will any units be taken out of service in the next five years?

C.	Ot	her actions required by the current permit
	su	bes the Other Requirements or Special Provisions section in the existing permit require bmission of any other information or other required actions? Examples include otification of Completion, progress reports, soil monitoring data, etc.
		□ Yes ⊠ No
		yes, provide information below on the status of any actions taken to meet the nditions of an Other Requirement or Special Provision.
	C	lick to enter text.
D.	Gr	it and grease treatment
	1.	Acceptance of grit and grease waste
		Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?
		□ Yes ⊠ No
		If No, stop here and continue with Subsection E. Stormwater Management.
	2.	Grit and grease processing
		Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.
		Click to enter text.
	3.	Grit disposal
		Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?
		□ Yes ⊠ No
		If No, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

		Describe the method of grit disposal.
		Click to enter text.
	4.	Grease and decanted liquid disposal
		Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.
		Describe how the decant and grease are treated and disposed of after grit separation.
		Click to enter text.
F	Sta	ormwater management
J4		Applicability
		Does the facility have a design flow of 1.0 MGD or greater in any phase?
		□ Yes ⊠ No
		Does the facility have an approved pretreatment program, under 40 CFR Part 403?
		☐ Yes ☑ No
		If no to both of the above, then skip to Subsection F, Other Wastes Received.
	2	MSGP coverage
	۷.	Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal
		currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?
		□ Yes ⊠ No
		<b>If yes</b> , please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:
		TXR05 Click to enter text. or TXRNE Click to enter text.
		If no, do you intend to seek coverage under TXR050000?
		□ Yes ⊠ No
	3.	Conditional exclusion
		Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)?
		□ Yes ⊠ No

	If yes, please explain below then proceed to Subsection F, Other Wastes Received:
	Click to enter text.
4.	Existing coverage in individual permit
	Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?
	□ Yes ⊠ No
	<b>If yes</b> , provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.
	Click to enter text.
5.	Zero stormwater discharge
	Do you intend to have no discharge of stormwater via use of evaporation or other means?
	□ Yes ⊠ No
	If yes, explain below then skip to Subsection F. Other Wastes Received.
	Click to enter text.
	Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.
6.	Request for coverage in individual permit
	Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit?
	□ Yes ⊠ No
	If yes, provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or discharge it via a separate dedicated stormwater outfall. Please also indicate if you

		intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.
		Click to enter text.
		Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.
F.	Di	scharges to the Lake Houston Watershed
	Do	es the facility discharge in the Lake Houston watershed?
		□ Yes ⊠ No
		yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions. ck to enter text.
G.	Ot	her wastes received including sludge from other WWTPs and septic waste
	1.	Acceptance of sludge from other WWTPs
		Does or will the facility accept sludge from other treatment plants at the facility site?
		□ Yes ⊠ No
		If yes, attach sewage sludge solids management plan. See Example 5 of instructions.
		In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an
		estimate of the BOD <sub>5</sub> concentration of the sludge, and the design BOD <sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.
		Click to enter text.
		Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.
	2.	Acceptance of septic waste
		Is the facility accepting or will it accept septic waste?
		□ Yes ⊠ No
		If yes, does the facility have a Type V processing unit?
		□ Yes ⊠ No
		If yes, does the unit have a Municipal Solid Waste permit?

□ Yes ⊠ No
If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD <sub>3</sub> concentration of the septic waste, and the
design BOD <sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.
Click to enter text.
Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.
<ol> <li>Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6)</li> </ol>
Is or will the facility accept wastes that are not domestic in nature excluding the categories listed above?
□ Yes ⊠ No
If yes, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action.
Click to enter text.
Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 50)
Is the facility in operation?
□ Yes ⊠ No
If no, this section is not applicable. Proceed to Section 8.
If yes, provide effluent analysis data for the listed pollutants. <i>Wastewater treatment facilities</i> complete Table 1.0(2). <i>Water treatment facilities</i> discharging filter backwash water, complete Table 1.0(3). Provide copies of the laboratory results sheets. <b>These tables are not</b>

Note: The sample date must be within 1 year of application submission.

applicable for a minor amendment without renewal. See the instructions for guidance.

Table 1.0(2) - Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD <sub>5</sub> , mg/l					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
E.coli (CFU/100ml) freshwater			-		
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/cm, †					
Oil & Grease, mg/l					
Alkalinity (CaCO <sub>3</sub> )*, mg/l					

<sup>\*</sup>TPDES permits only †TLAP permits only

Table 1.0(3) - Pollutant Analysis for Water Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity (CaCO <sub>3</sub> ), mg/l					

#### Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: **Contract operations** 

Facility Operator's License Classification and Level: **Contract operations** 

Facility Operator's License Number: **Contract operations** 

# Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 51)

Α.	WW	TP's Biosolids Management Facility Type
	Che	ck all that apply. See instructions for guidance
		Design flow>= 1 MGD
		Serves >= 10,000 people
		Class I Sludge Management Facility (per 40 CFR § 503.9)
	$\boxtimes$	Biosolids generator
		Biosolids end user - land application (onsite)
		Biosolids end user - surface disposal (onsite)
		Biosolids end user – incinerator (onsite)
В.	ww	TP's Biosolids Treatment Process
	Che	ck all that apply. See instructions for guidance.
	$\boxtimes$	Aerobic Digestion
		Air Drying (or sludge drying beds)
		Lower Temperature Composting
		Lime Stabilization
		Higher Temperature Composting
		Heat Drying
		Thermophilic Aerobic Digestion
		Beta Ray Irradiation
		Gamma Ray Irradiation
		Pasteurization
		Preliminary Operation (e.g. grinding, de-gritting, blending)
		Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
		Sludge Lagoon
		Temporary Storage (< 2 years)
		Long Term Storage (>= 2 years)
		Methane or Biogas Recovery
		Other Treatment Process: Click to enter text.

#### C. Biosolids Management

Provide information on the *intended* biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize

all biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

#### **Biosolids Management**

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Agricultural Land Application	Off-site Third-Party Handler or Preparer	Bulk		Class B: PSRP Aerobic Digestion	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Attachment T-4

#### D. Disposal site

Disposal site name: Attachment T-4

TCEQ permit or registration number: <u>Attachment T-4</u>
County where disposal site is located: <u>Attachment T-4</u>

#### E. Transportation method

Method of transportation (truck, train, pipe, other): Attachment T-4

Name of the hauler: Attachment T-4

Hauler registration number: Attachment T-4

Sludge is transported as a:

Liquid $\square$ semi-liquid $\boxtimes$ semi-solid $\square$	solid □
---	---------

# Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 53)

#### A. Beneficial use authorization

Does the existin	g permit	include	authorizatio	n for	land	application	of	sewage	sludge	for
beneficial use?										

□ Yes ⊠ No

If yes, are you requesting to continue this authorization to land apply sewage sludge for beneficial use?

□ Yes ⊠ No

If yes, is the completed Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451) attached to this permit application (see the instructions for details)?

	Yes	$\boxtimes$	No										
B. Sludg	ge proce	ssin	g autho	rization	i								
	the exis ge or di				authorizat	ion fo	r any	of the	e follov	wing sl	udge pi	rocessing,	,
Sl	udge Co	mpo	sting					Yes		No			
M	arketing	g and	Distrib	ution of	sludge			Yes		No			
Sl	udge Su	rface	Dispos	al or Slu	ıdge Mono	fill		Yes		No			
T€	emporar	y sto	rage in	sludge l	agoons			Yes		No			
autho	orization	n, is t	he com	pleted D	options ar Oomestic V o. 10056)	Vastev	vater	Perm	it App	licatio	n: Sewa		e
	Yes	$\boxtimes$	No										
Section	n 11. S	Sew	age Sl	udge l	Lagoons	(Ins	truc	ctions	s Pag	e 53)		集高温	
	Application of the second				dge lagoon								
	es ⊠	No		Ü	0 0								
f yes, co	mplete	the r	emaind	er of thi	s section. l	If no, p	oroce	ed to	Section	ı 12.			
A. Locat	ion info	orma	tion										
The f	ollowing	g maj	ps are r	equired Number.	to be subn	nitted	as pa	art of t	he app	olicatio	n. For e	each map,	,
•	Origin	al Ge	neral H	ighway (	(County) M	lap:							
	Attach	ımen	t: Click	to enter	text.								
•	USDA	Natu	ral Reso	ources C	onservatio	n Serv	ice S	oil Ma	p:				
	Attach	ımen	t: Click	to enter	text.								
•	Federa	d Em	ergency	Manage	ement Map	:							
	Attach	ımen	t: Click	to enter	text.								
•	Site m	ap:											
				to enter									
Discu apply		lescr	iption i	f any of	the follow	ing exi	ist w	ithin t	he lago	on are	a. Chec	k all that:	25 25
	Overl	ap a	designa	ted 100	-year frequ	iency f	lood	plain					
	Soils	with	floodin	g classif	ication								
	Overl	ap ar	n unstal	ole area									
	Wetla	nds											
	Locat	ed le	ss than	60 mete	ers from a	fault							
	None	of th	ie above	5									
At	tachme	nt: C	lick to	enter tex	ct.								

	If a portion of the lagoon(s) is located within the 100-year frequency flood plain, provide the protective measures to be utilized including type and size of protective structures:
	Click to enter text.
В.	Temporary storage information
	Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in <i>Section 7 of Technical Report 1.0</i> .
	Nitrate Nitrogen, mg/kg: Click to enter text.
	Total Kjeldahl Nitrogen, mg/kg: Click to enter text.
	Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click to enter text.
	Phosphorus, mg/kg: Click to enter text.
	Potassium, mg/kg: Click to enter text.
	pH, standard units: Click to enter text.
	Ammonia Nitrogen mg/kg: Click to enter text.
	Arsenic: Click to enter text.
	Cadmium: Click to enter text.
	Chromium: Click to enter text.
	Copper: Click to enter text.
	Lead: Click to enter text.
	Mercury: Click to enter text.
	Molybdenum: Click to enter text.
	Nickel: Click to enter text.
	Selenium: Click to enter text.
	Zinc: Click to enter text.
	Total PCBs: Click to enter text.
	Provide the following information:
	Volume and frequency of sludge to the lagoon(s): Click to enter text.
	Total dry tons stored in the lagoons(s) per 365-day period: Click to enter text.
	Total dry tons stored in the lagoons(s) over the life of the unit: <u>Click to enter text.</u>
C.	Liner information
	Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?
	□ Yes □ No

	If yes, describe the liner below. Please note that a liner is required.
	Click to enter text.
D.	Site development plan
	Provide a detailed description of the methods used to deposit sludge in the lagoon(s):
	Click to enter text.
	Attach the following documents to the application.
	<ul> <li>Plan view and cross-section of the sludge lagoon(s)</li> </ul>
	Attachment: Click to enter text.
	Copy of the closure plan
	Attachment: Click to enter text.
	<ul> <li>Copy of deed recordation for the site</li> </ul>
	Attachment: Click to enter text.
	• Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons
	Attachment: Click to enter text.
	<ul> <li>Description of the method of controlling infiltration of groundwater and surface water from entering the site</li> </ul>
	Attachment: Click to enter text.
	<ul> <li>Procedures to prevent the occurrence of nuisance conditions</li> </ul>
	Attachment: Click to enter text.
E.	Groundwater monitoring
	Is groundwater monitoring currently conducted at this site, or are any wells available for groundwater monitoring, or are groundwater monitoring data otherwise available for the sludge lagoon(s)?
	□ Yes □ No
	If groundwater monitoring data are available, provide a copy. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater as a separate attachment.
	Attachment: Click to enter text.

# Section 12. Authorizations/Compliance/Enforcement (Instructions Page 55)

A.	Additional authorizations	
	Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?	
	□ Yes ⊠ No	
	If yes, provide the TCEQ authorization number and description of the authorization:	
C	lick to enter text.	
В.	Permittee enforcement status	
	Is the permittee currently under enforcement for this facility?	
	□ Yes ⊠ No	
	Is the permittee required to meet an implementation schedule for compliance or enforcement?	
	□ Yes ⊠ No	
	<b>If yes</b> to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:	n
C	lick to enter text.	
Se	ection 13. RCRA/CERCLA Wastes (Instructions Page 55)	
A.	RCRA hazardous wastes  Has the facility received in the past three years, does it currently receive, or will it receive RCRA hazardous waste?  □ Yes ☑ No	ĵ

### B. Remediation activity wastewater

Has the facility received in the past three years, does it currently receive, or will it receive CERCLA wastewater, RCRA remediation/corrective action wastewater or other remediation activity wastewater?

□ Yes ⊠ No

### C. Details about wastes received

**If yes** to either Subsection A or B above, provide detailed information concerning these wastes with the application.

Attachment: Click to enter text.

### Section 14. Laboratory Accreditation (Instructions Page 56)

All laboratory tests performed must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

- The laboratory is an in-house laboratory and is:
  - periodically inspected by the TCEQ; or
  - o located in another state and is accredited or inspected by that state; or
  - o performing work for another company with a unit located in the same site; or
  - performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review 30 TAC Chapter 25 for specific requirements.

The following certification statement shall be signed and submitted with every application. See the Signature Page section in the Instructions, for a list of designated representatives who may sign the certification.

### **CERTIFICATION:**

I certify that all laboratory tests submitted with this application meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

Title: <u>Click to enter text.</u>
Signature:
Date:

Printed Name: Click to enter text.

### DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

The following information is required for new and amendment major applications.

### Section 1. Justification for Permit (Instructions Page 57)

### A. Justification of permit need

B.

Provide a detailed discussion regarding the need for any phase(s) not currently permitted. Failure to provide sufficient justification may result in the Executive Director recommending denial of the proposed phase(s) or permit.

The area served is proposed to have 405 single family connections. The applicant is requesting a 125,000gpd permit to serve this development. The anticipated time frame for buildout is within 5 years.  Regionalization of facilities  For additional guidance, please review TCEO's Regionalization Policy for Wastewater Treatment'.  Provide the following information concerning the potential for regionalization of domest wastewater treatment facilities:  1. Municipally incorporated areas  If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.  Is any portion of the proposed service area located in an incorporated city?  Yes No Not Applicable  If yes, within the city limits of: Click to enter text.  If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.  Attachment: Click to enter text.  2. Utility CCN areas  Is any portion of the proposed service area located inside another utility's CCN area?  Yes No		
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Is any portion of the proposed service area located inside another utility's CCN area?		Attachment: Click to enter text.
	2.	Utility CCN areas
□ Yes ⊠ No		Is any portion of the proposed service area located inside another utility's CCN area?
		□ Yes ⊠ No

https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater

If yes, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the CCN facilities versus the cost of the proposed facility or expansion.

Attachment: Click to enter text.

### 3. Nearby WWTPs or collection systems

Are there any domestic permitted wastewater treatment facilities or collection systems located within a three-mile radius of the proposed facility?

⊠ Yes □ No

If yes, attach a list of these facilities and collection systems that includes each permittee's name and permit number, and an area map showing the location of these facilities and collection systems.

### Attachment: Attachment T-5

**If yes**, attach proof of mailing a request for service to each facility and collection system, the letters requesting service, and correspondence from each facility and collection system.

### Attachment: Attachment T-5

If the facility or collection system agrees to provide service, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the facility or collection system versus the cost of the proposed facility or expansion.

**Attachment: Attachment T-5** 

### Section 2. Proposed Organic Loading (Instructions Page 59)

	Is	this	facility	in	opera	tion?
--	----	------	----------	----	-------	-------

X

No

Yes

If no, proceed to Item B, Proposed Organic Loading.

If yes, provide organic loading information in Item A, Current Organic Loading

### A. Current organic loading

Facility Design Flow (flow being requested in application): Click to enter text.

Average Influent Organic Strength or BOD<sub>5</sub> Concentration in mg/l: Click to enter text.

Average Influent Loading (lbs/day = total average flow X average BOD<sub>5</sub> conc. X 8.34):  $\underline{\text{Click}}$  to enter text.

Provide the source of the average organic strength or BOD<sub>5</sub> concentration.

Click to enter text.			

### B. Proposed organic loading

This table must be completed if this application is for a facility that is not in operation or if this application is to request an increased flow that will impact organic loading.

Table 1.1(1) - Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality	0.125	300
Subdivision		
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources	0.125	
AVERAGE BOD <sub>5</sub> from all sources		300

## Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 59)

### A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 10

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

B.	Interim II Phase Design Effluent Quality
	Biochemical Oxygen Demand (5-day), mg/l: Click to enter text.
	Total Suspended Solids, mg/l: Click to enter text.
	Ammonia Nitrogen, mg/l: Click to enter text.
	Total Phosphorus, mg/l: Click to enter text.
	Dissolved Oxygen, mg/l: Click to enter text.
	Other: Click to enter text.
C.	Final Phase Design Effluent Quality
	Biochemical Oxygen Demand (5-day), mg/l: 10
	Total Suspended Solids, mg/l: 15
	Ammonia Nitrogen, mg/l: Click to enter text.
	Total Phosphorus, mg/l: Click to enter text.
	Dissolved Oxygen, mg/l: Click to enter text.
	Other: Click to enter text.
D.	Disinfection Method
	Identify the proposed method of disinfection.
	☑ Chlorine: 2 mg/l after 20 minutes detention time at peak flow
	Dechlorination process: None
	☐ Ultraviolet Light: Click to enter text. seconds contact time at peak flow
	□ Other: Click to enter text.
C	
	ction 4. Design Calculations (Instructions Page 59)
	ach design calculations and plant features for each proposed phase. Example 4 of the tructions includes sample design calculations and plant features.
	Attachment: Attachment T-6
Sa	ction 5. Facility Site (Instructions Page 60)
JC	etion 3. Tachity Site (instructions rage 00)
A.	100-year floodplain
	Will the proposed facilities be located <u>above</u> the 100-year frequency flood level?
	⊠ Yes □ No

**If no**, describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.

Click to enter text.		

Provide the source(s) used to determine 100-year frequency flood plain.

Engineering
Engineering
For a new or expansion of a facility, will a wetland or part of a wetland be filled?
□ Yes ⊠ No
If yes, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?
□ Yes ⊠ No
If yes, provide the permit number: <u>Click to enter text.</u>
<b>If no,</b> provide the approximate date you anticipate submitting your application to the Corps: <u>Click to enter text.</u>
Wind rose
Attach a wind rose: Attachment T-7
ection 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)
Beneficial use authorization
Are you requesting to include authorization to land apply sewage sludge for beneficial us on property located adjacent to the wastewater treatment facility under the wastewater permit?
□ Yes ⊠ No
If yes, attach the completed Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451): Click to enter text.
Sludge processing authorization
Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:
□ Sludge Composting
☐ Marketing and Distribution of sludge
□ Sludge Surface Disposal or Sludge Monofill
If any of the above, sludge options are selected, attach the completed <b>Domestic</b> Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056): Click to enter text.

## Section 7. Sewage Sludge Solids Management Plan (Instructions Page 61)

Attach a solids management plan to the application.

Attachment: T-8

B.

B.

The sewage sludge solids management plan must contain the following information:

- Treatment units and processes dimensions and capacities
- Solids generated at 100, 75, 50, and 25 percent of design flow
- Mixed liquor suspended solids operating range at design and projected actual flow

- Quantity of solids to be removed and a schedule for solids removal
- Identification and ownership of the ultimate sludge disposal site
- For facultative lagoons, design life calculations, monitoring well locations and depths, and the ultimate disposal method for the sludge from the facultative lagoon

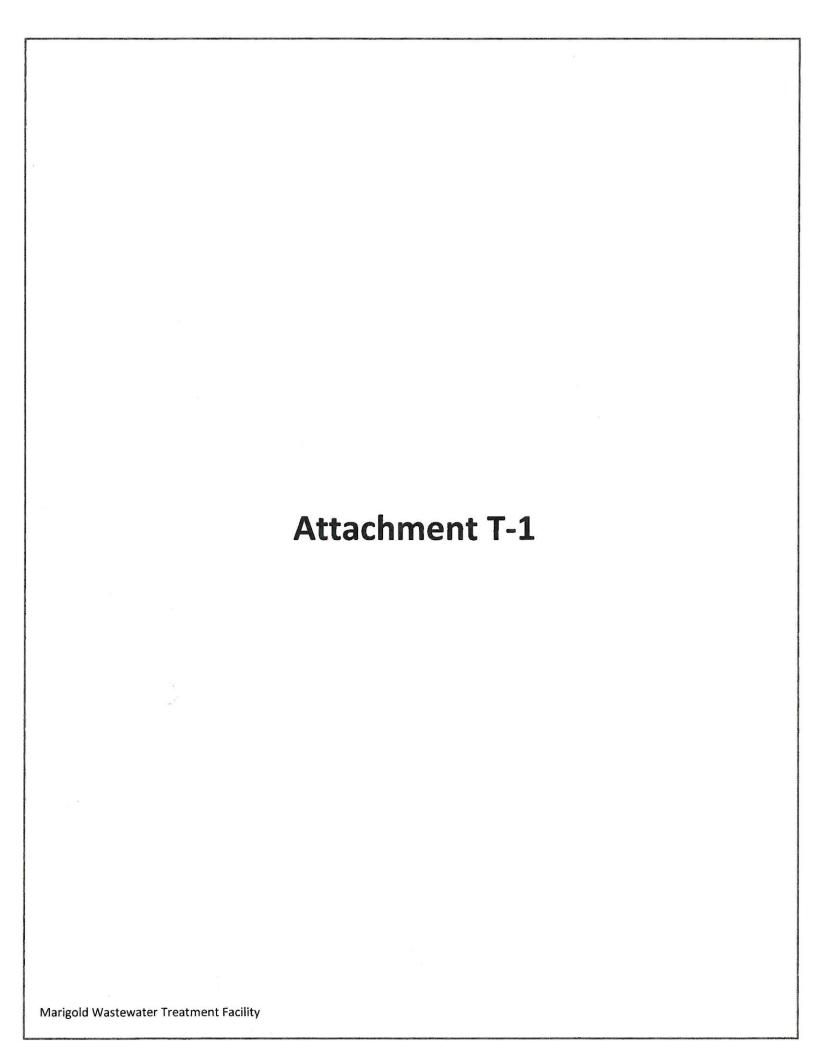
An example of a sewage sludge solids management plan has been included as Example 5 of the instructions.

## DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply	(Instructions Page 64)
Is there a surface water intake for domestic drinking water s downstream from the point or proposed point of discharge?	
□ Yes ⊠ No	
If <b>no</b> , proceed it Section 2. <b>If yes</b> , provide the following:	
Owner of the drinking water supply: Click to enter text.	
Distance and direction to the intake: <u>Click to enter text.</u>	
Attach a USGS map that identifies the location of the inta	ıke.
Attachment: Click to enter text.	
Section 2. Discharge into Tidally Affected W 64)	aters (Instructions Page
Does the facility discharge into tidally affected waters?	
□ Yes ⊠ No	
If <b>no</b> , proceed to Section 3. <b>If yes</b> , complete the remainder o Section 3.	f this section. If no, proceed to
A. Receiving water outfall	
Width of the receiving water at the outfall, in feet: Click t	o enter text.
B. Oyster waters	
Are there oyster waters in the vicinity of the discharge?	
□ Yes □ No	
If yes, provide the distance and direction from outfall(s).	
Click to enter text.	
C. Sea grasses	
Are there any sea grasses within the vicinity of the point	of discharge?
□ Yes ⊠ No	
If yes, provide the distance and direction from the outfal	l(s).
Click to enter text.	

### Section 3. Classified Segments (Instructions Page 64) Is the discharge directly into (or within 300 feet of) a classified segment? X Yes □ No If yes, this Worksheet is complete. **If no**, complete Sections 4 and 5 of this Worksheet. **Description of Immediate Receiving Waters (Instructions** Section 4. **Page 65)** Name of the immediate receiving waters: Mound Creek A. Receiving water type Identify the appropriate description of the receiving waters. Stream Freshwater Swamp or Marsh Lake or Pond Surface area, in acres: Click to enter text. Average depth of the entire water body, in feet: Click to enter text. Average depth of water body within a 500-foot radius of discharge point, in feet: Click to enter text. Man-made Channel or Ditch Open Bay Tidal Stream, Bayou, or Marsh Other, specify: Click to enter text. B. Flow characteristics If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area upstream of the discharge. For new discharges, characterize the area downstream of the discharge (check one). Intermittent - dry for at least one week during most years Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses Perennial - normally flowing Check the method used to characterize the area upstream (or downstream for new dischargers). USGS flow records Historical observation by adjacent landowners Personal observation Other, specify: Click to enter text.



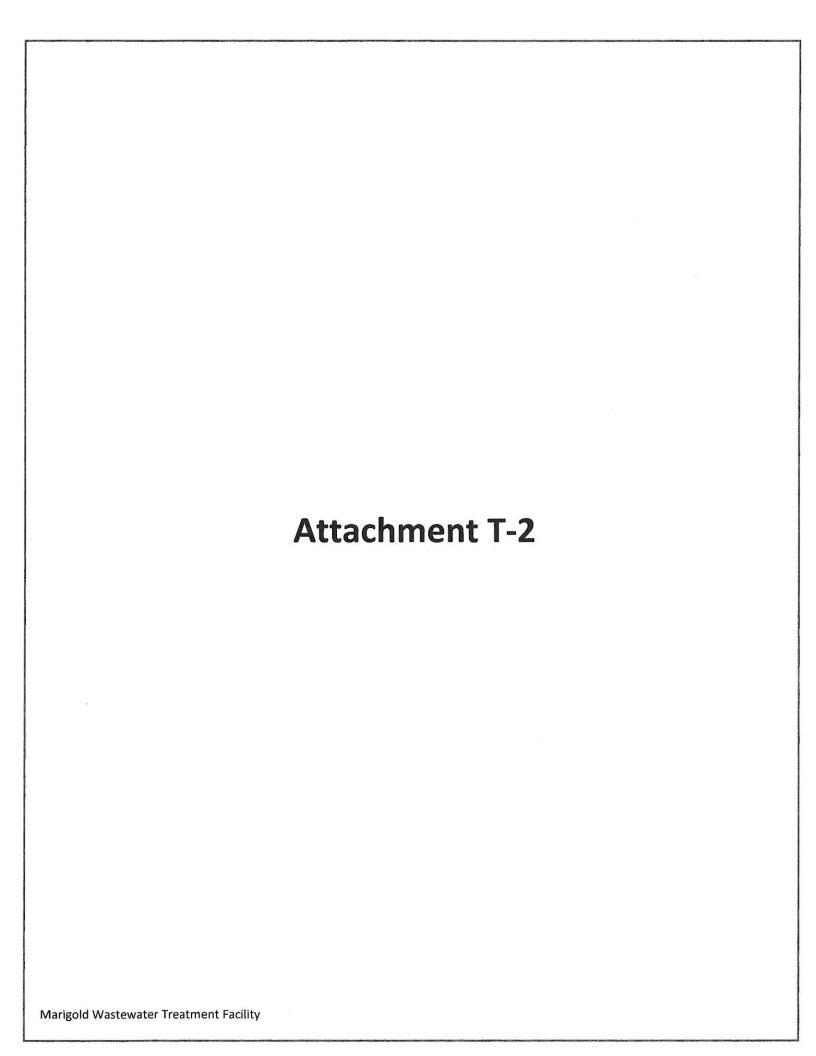
## Facility Dimensions & Facility Features

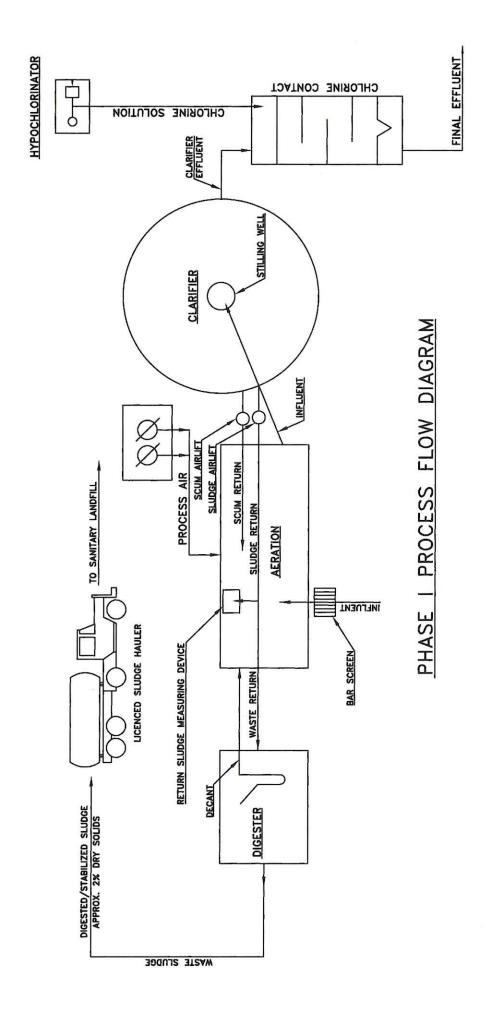
The facility will employ the complete mix variation of the activated sludge process designed for single stage nitrification - From the lift station the wastewater will travel through a coarse barscreen then to the complete mix basin; from the basin the mix-liquor will be transferred to the clarifier where solids will be settled out and clear water will flow over the weirs then into the chlorine contact basin. The settled solids will either be transferred to the digester or returned to the headworks.

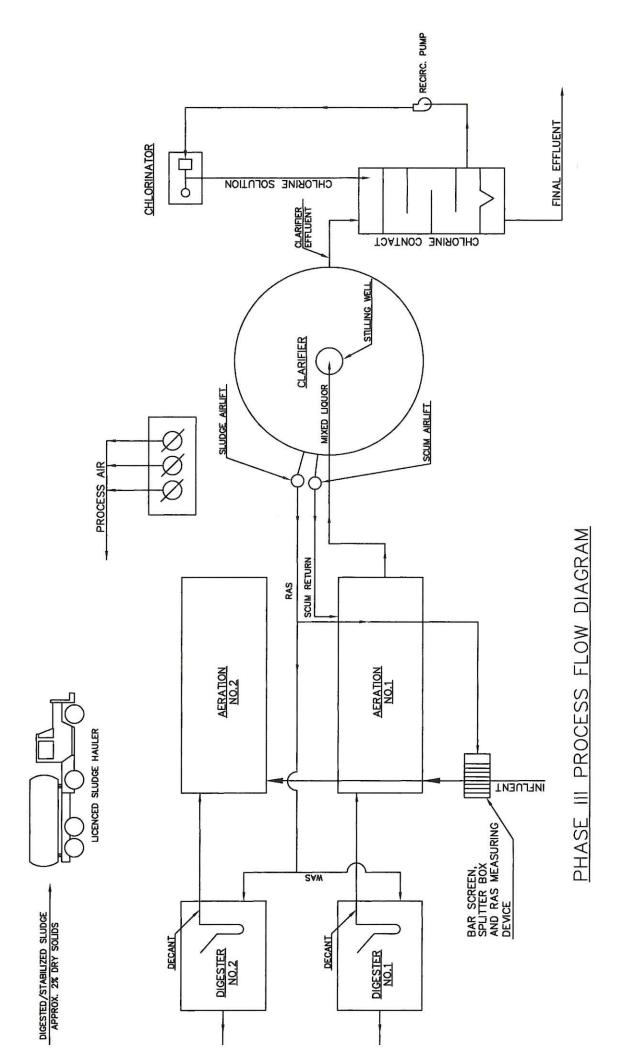
Phase I - 0.0625 MGD						
Unit	Number of Units	Length	Width	Height		
Clarifier	1		26' Dia	12'		
Chloring Contact	1	12'	18'	12'		
Aeration	1	35'	12'	12'		
Digester	1	25'	12'	12'		

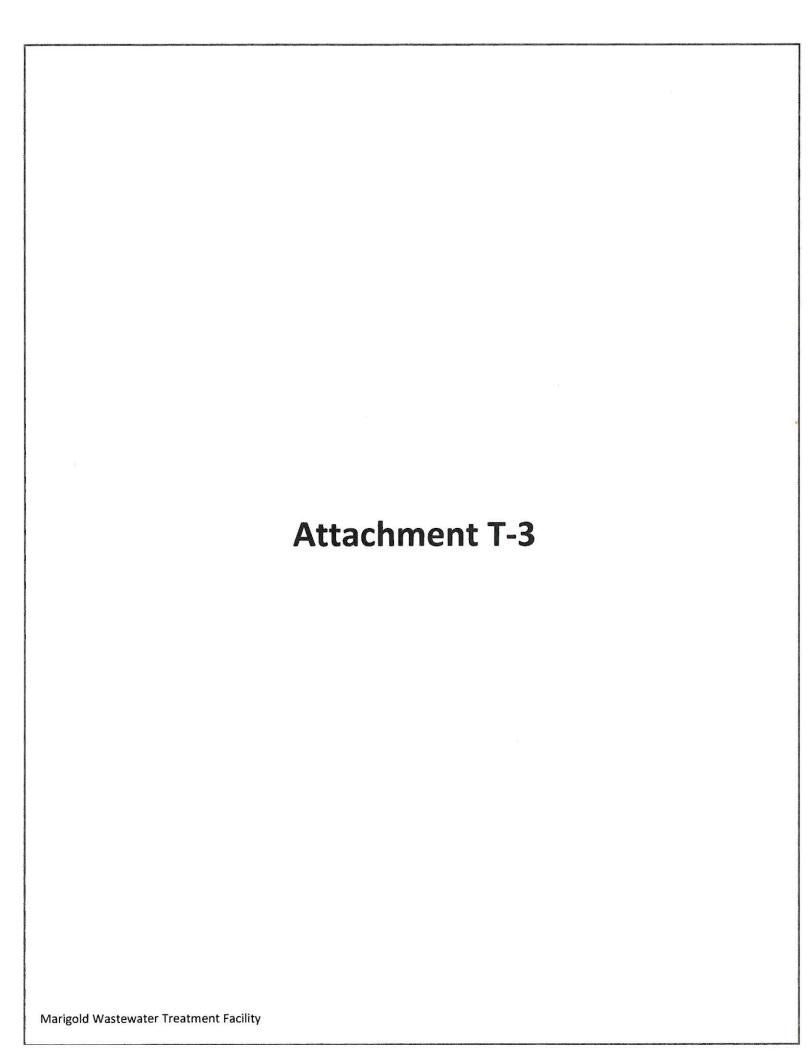
Phase II - 0.125 MGD						
Unit	Number of Units	Length	Width	Height		
Clarifier	1		26' Dia	12'		
Chloring Contact	1	12'	18'	12'		
Aeration	2	35'	12'	12'		
Digester	2	25'	12'	12'		

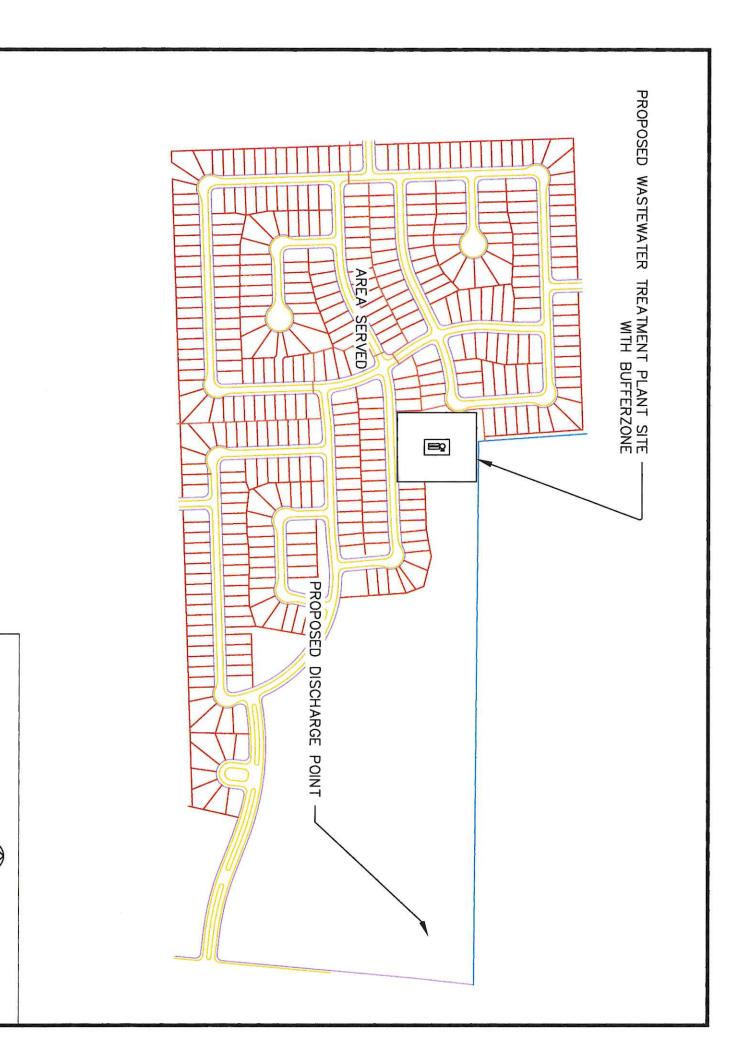
- For short power outages the sewage will be contained in the collection system. The plant features digesters, chlorinator, and stand-by blowers. The plant is to be maintained and operated by personnel licensed by the State of Texas.
- The plant is designed to be maintained without bypassing. Replacement or repair of the interior coating system is the only maintenance item that would necessitate bypassing and the epoxy system should last 25-30 years.
- An intruder resistant fence will be placed around the facility.
- A generator will be placed at the facility with automatic transfer switch for power outages



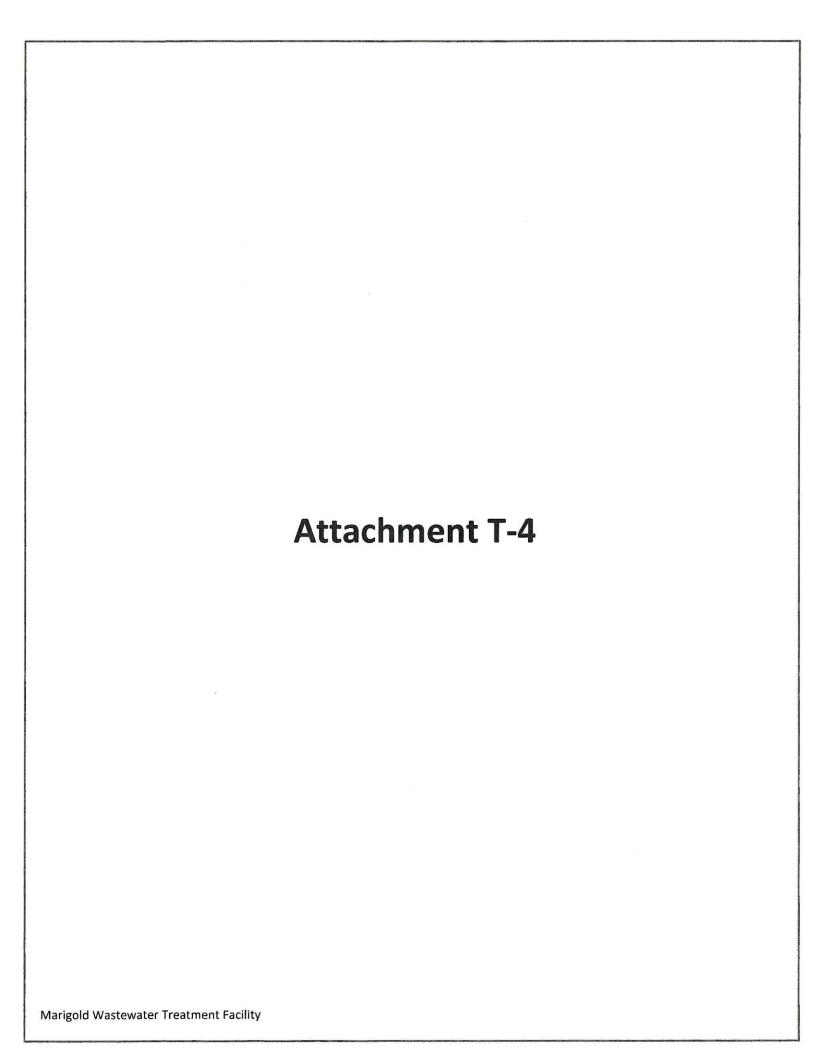








SITE DRAWING



Plant: Marigold TCEQ Permit: Pending

Permit: Pending

Date: 7/15/2024

### To Whom It May Concern:

Mount Houston Road Municipal Utility District, owner of a Waste Water Treatment Plant (Permit #WQ0011154001) located approximately 1.3 miles northwest of the intersection of State Highway 249 and Veterans Memorial Drive, Houston, Texas, and Magna Flow Environmental, owner of the Processing Permit (Permit #WO0005023000)

Magna Flow Environmental and Mount Houston Road Municipal Utility District have entered into a contractual agreement, where Magna Flow Environmental (T.C.E.Q. Transporter Permit # 21484) will dewater sewage sludge from other waste treatment plants at the Mount Houston Road Municipal Utility District treatment plant. Dewatered Sludge will then be disposed of at a T.C.E.Q. permitted disposal site.

Mount Houston Road Municipal Utility District has the capacity to accept sludge from the above mentioned plant.

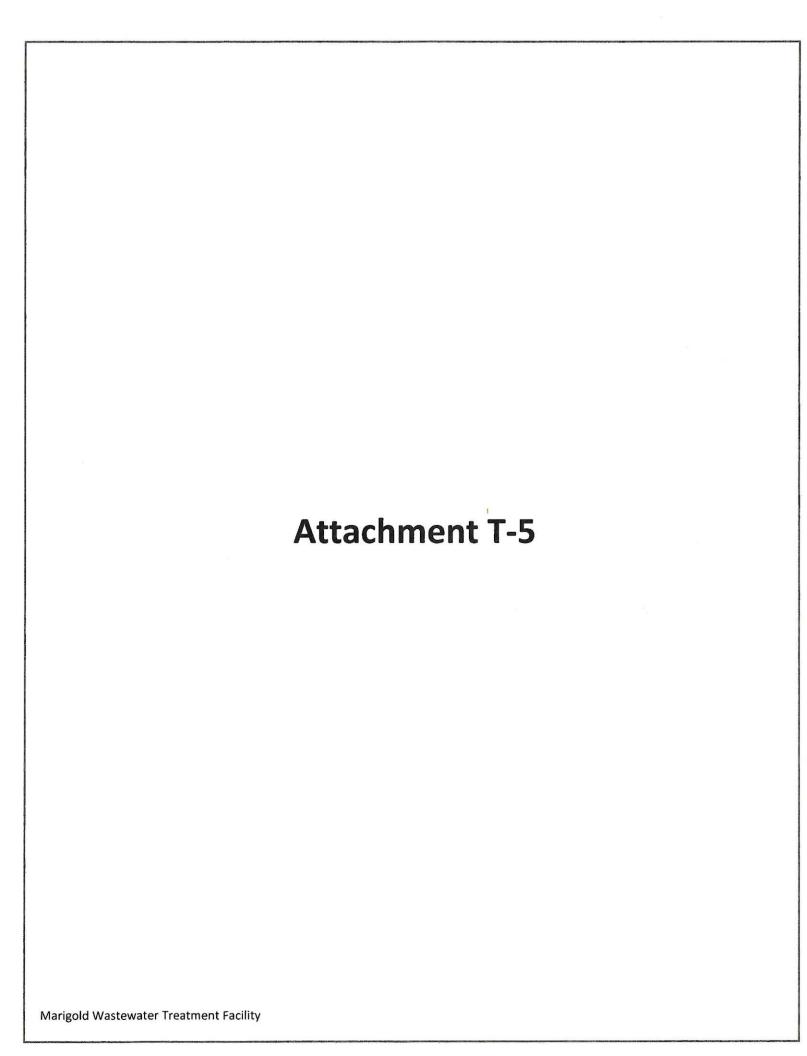
Magna Flow Environmental agrees to accept and be responsible for the sludge dewatered at the plant. We will maintain responsibility for the life of the permit.

President

M. Marlon Ivy & Associates Operator for MTH MUD

Yerry McCurtain

Magna Flow Environmental



### **LIST OF FACILITIES WITHIN 3-MILES**

- City of Waller PO Box 239 Waller Texas 77484 WQ0010310-001
- Quadvest, L.P.
   26926 FM 2978 Road
   Magnolia Texas 77354
   WQ0015969-001
- Brian Fogarty, VP
   Century Land Holdings of Texas LLC
   333 Cypress Run, Suite 200
   Houston, Texas 77094
   WQ0016117001
- 290 Kickapoo Development, Inc 21021 Spring Brook Plaza Drive Suite 215 Spring Texas 77379 WQ0015483001
- Alexandra Creany
   Director of EHS Curry Rail Services, Inc
   1425 11th Avenue
   Altoona, Pennsylvania 16601
   WQ0013472001

2 mi

1:72,224

0.5

bA 16gaH

# Wastewater Outfalls 7/16/2024, 3:19:12 PM

July 17, 2024

via Certified Mail

City of Waller PO Box 239 Waller Texas 77484

Re:

Texas Commission on Environmental Quality Wastewater Discharge Permit Application

Regionalization

Mayfield West Wastewater treatment Facility

To Whom It May Concern:

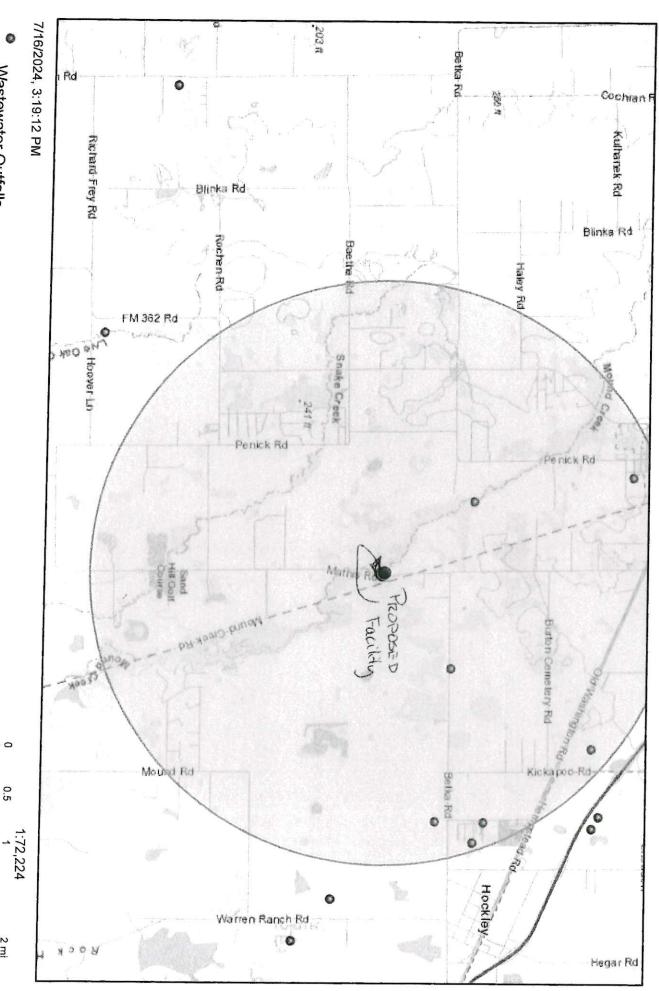
Undine Texas Environmental, LLC is preparing a new wastewater discharge permit in Waller County. One of the items to be addressed by the Texas Commission on Environmental Quality in a wastewater discharge permit application is regionalization. As part of this process, we are to investigate the feasibility of obtaining capacity for our 0.0.125 MGD wastewater flow from a neighboring facility.

Is it possible for your utility to accept 0.125MGD from the proposed developm YESNO			
Ву:	Date:		
Please date, sign and return your reply	via email to jgoebel@undinellc.com		
If you have any questions, please do no	ot hesitate to contact me.		
Thank you,			
Jeff Goebel			



713-724-9321

# Wastewater Outfalls in Texas



Wastewater Outfalls

TCEQ, City of Houston, HPB, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METINASA, NGA, EPA, USDA

0.75

<u>.5</u>

3 km

2 mi

via Certified Mail

July 17, 2024

Quadvest, L.P. 26926 FM 2978 Road Magnolia Texas 77354

Re:

Texas Commission on Environmental Quality Wastewater Discharge Permit Application Regionalization Mayfield West Wastewater treatment Facility

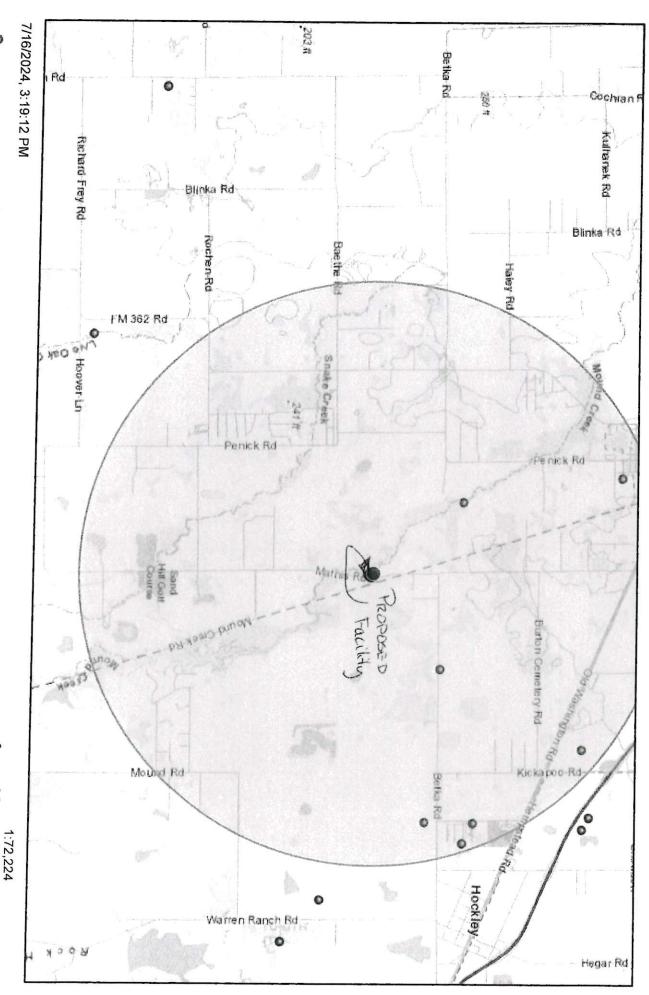
To Whom It May Concern:

Undine Texas Environmental, LLC is preparing a new wastewater discharge permit in Waller County. One of the items to be addressed by the Texas Commission on Environmental Quality in a wastewater discharge permit application is regionalization. As part of this process, we are to investigate the feasibility of obtaining capacity for our 0.0.125 MGD wastewater flow from a neighboring facility.

Is it possible for your utility to accept 0NO	.125MGD from the proposed development?
Ву:	Date:
Please date, sign and return your reply v	via email to jgoebel@undinellc.com
If you have any questions, please do not	t hesitate to contact me.
Thank you,	
Jeff Goebet	
713-724-9321	



# Wastewater Outfalls in Texas



Wastewater Outfalls

TCEQ, City of Houston, HPB, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METIMASA, NGA, EPA, USDA

0.75

1.5

3 km

2 mi

0.5

July 17, 2024

via Certified Mail

Brian Fogarty, VP Century Land Holdings of Texas LLC 333 Cypress Run, Suite 200 Houston, Texas 77094

Re:

Texas Commission on Environmental Quality Wastewater Discharge Permit Application Regionalization Mayfield West Wastewater treatment Facility

To Whom It May Concern:

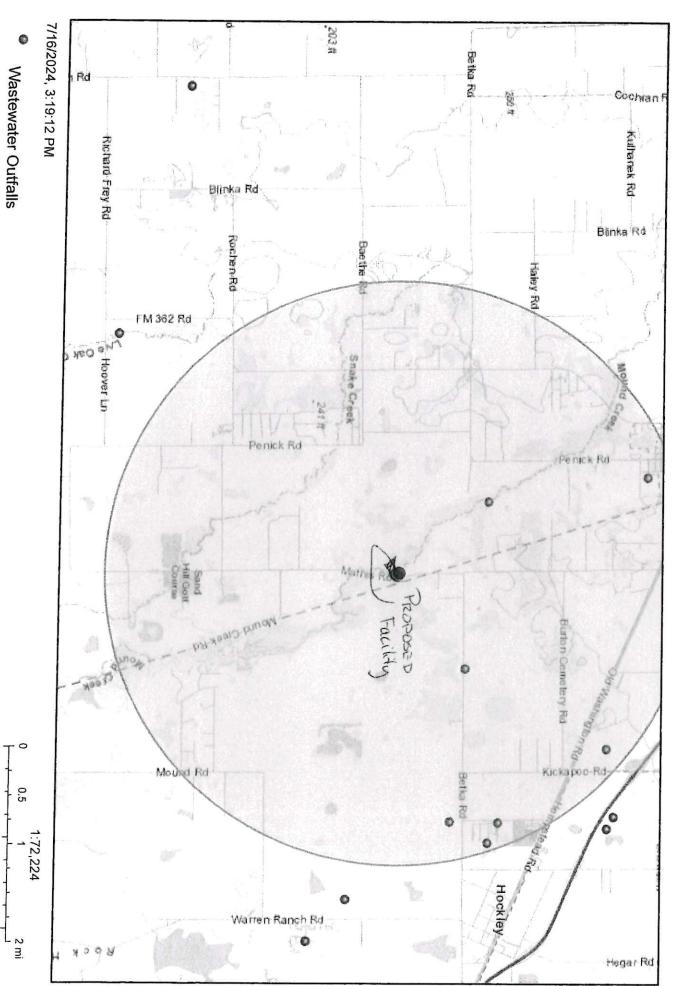
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Is it possible for your utility to acce	pt 0.125MGD from the proposed development?
Ву:	Date:
Please date, sign and return your rep	oly via email to jgoebel@undinellc.com
If you have any questions, please do	not hesitate to contact me.
Thank you,	

Jeff Goebel 713-724-9321



# Wastewater Outfalls in Texas



TCEQ, City of Houston, HPB, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METINASA, NGA, EPA, USDA

0.75

1.5

3 km

July 17, 2024

290 Kickapoo Development, Inc 21021 Spring Brook Plaza Drive Suite 215 Spring Texas 77379

Re:

Texas Commission on Environmental Quality

Wastewater Discharge Permit Application

Regionalization

Mayfield West Wastewater treatment Facility

To Whom It May Concern:

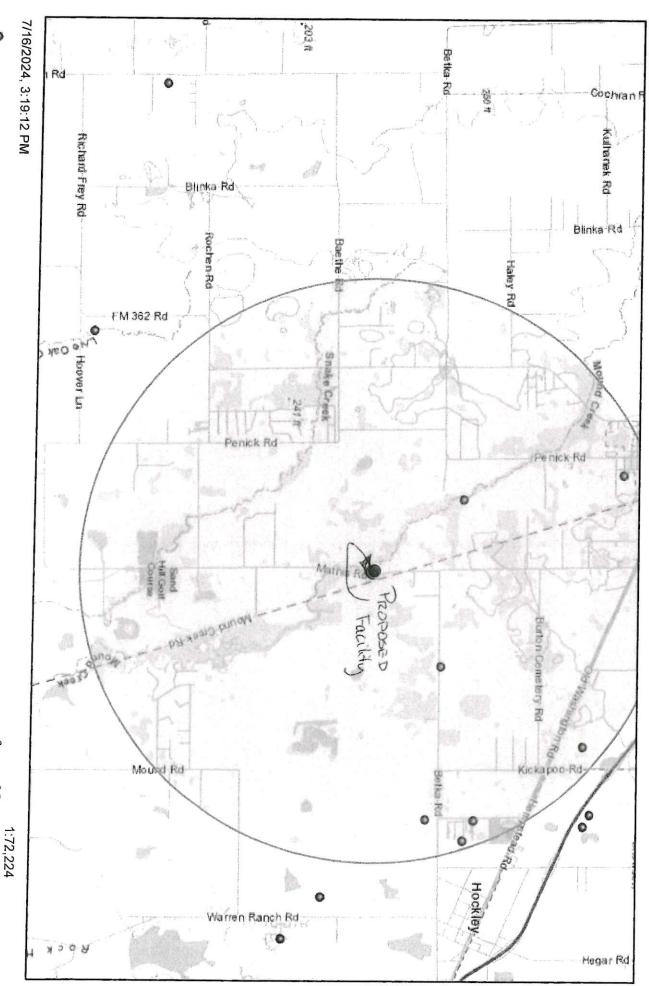
Undine Texas Environmental, LLC is preparing a new wastewater discharge permit in Waller County. One of the items to be addressed by the Texas Commission on Environmental Quality in a wastewater discharge permit application is regionalization. As part of this process, we are to investigate the feasibility of obtaining capacity for our 0.0.125 MGD wastewater flow from a neighboring facility.

YESNO	to accept 0.125MGD from the proposed devert	ıpm
Ву:	Date:	
Please date, sign and return y	our reply via email to jgoebel@undinellc.com	
If you have any questions, ple	ease do not hesitate to contact me.	
Thank you,		

Jeff Goebet 713-724-9321



# Wastewater Outfalls in Texas



Wastewater Outfalls

TCEQ, City of Houston, HPB, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA

0.75

<u>-1</u>

3 km

L ≥

Alexandra Creany Director of EHS Curry Rail Services, Inc 1425 11th Avenue Altoona, Pennsylvania 16601

Re:

Texas Commission on Environmental Quality Wastewater Discharge Permit Application

Regionalization

Mayfield West Wastewater treatment Facility

To Whom It May Concern:

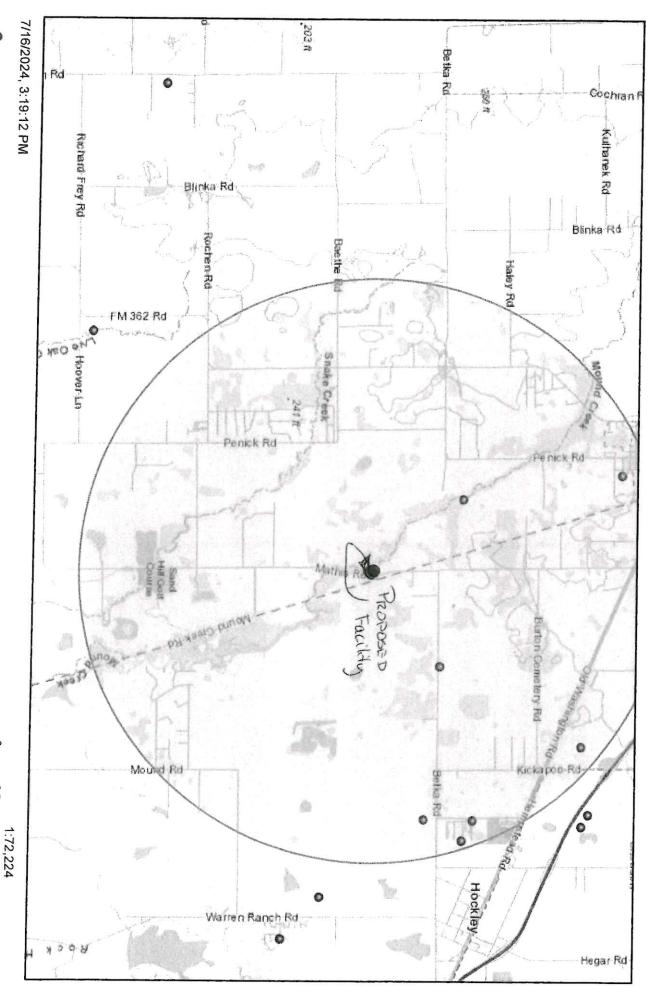
Undine Texas Environmental, LLC is preparing an Amendment to their existing wastewater discharge permit a in Waller County. One of the items to be addressed by the Texas Commission on Environmental Quality in a wastewater discharge permit application is regionalization. As part of this process, we are to investigate the feasibility of obtaining capacity for our 0.0.125 MGD wastewater flow from a neighboring facility

Is it possible for your utility to accept 0.1YESNO	25MGD from the proposed development
By:	Date:
Please date, sign and return your reply via	a email to jgoebel@undinellc.com
If you have any questions, please do not h	nesitate to contact me.
Thank you,	

Jeff Goebel 713-724-9321



# Wastewater Outfalls in Texas



Wastewater Outfalls

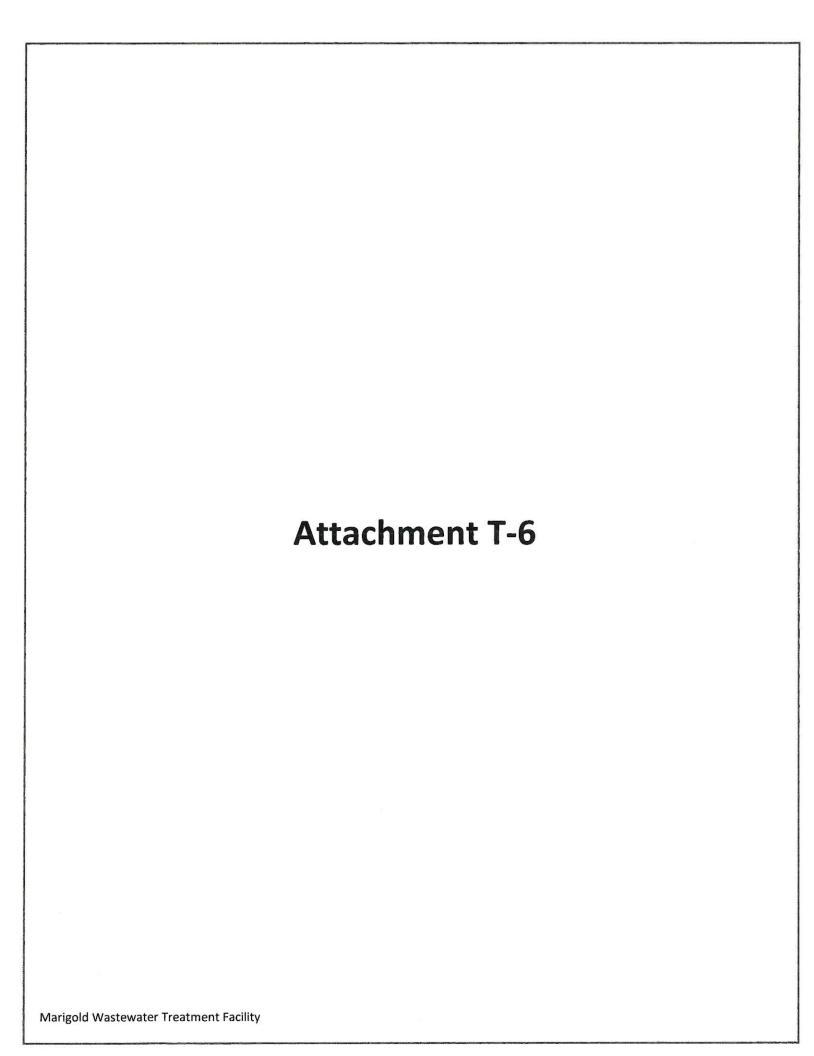
TCEQ, City of Houston, HPB, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, NGA, EPA, USDA

0.75

3 km

2 mi

0.5



### **TECHNICAL DESIGN REPORT**

### FOR

### Marigold Wastewater Treatment Facility

- 1. <u>PURPOSE</u> The purpose of this report is to present the basis of design and summary of uni sizing and hydraulic calculations for the Sewage Treatment Plant.
- 2. <u>DESCRIPTION OF PROPERTY</u> The project under development is a residential community
- POPULATION SERVED The location of the proposed facility is shown on Sheet One of the Plans. The population flow is based on 100 gallons per capita per day.
- 4. <u>INFLUENT QUALITY CHARACTERISTICS</u> The raw sewage quality characteristics used for design are estimates based on past experience and on State Design Criteria and are as follows:

PARAMETER	CONCENTRATION - MG/L	PER CAPITA CONTRIBUTION - LB/DAY
BOD5 TSS	300 300	0.1668
TSS	300	0.2000

5. <u>INFLUENT FLOW CHARACTERISTICS</u> The hydraulic design of the plant must be conservative to insure that the plant will operate under the most extreme conditions anticip Future enlargement to the plant will be based on actual influent flow data. The plant proces and hydraulic design for this phase are based on the following flows:

	First P	hase
Average Daily Flow (Qav)	62,500 GPD	43 GPM
Peak 2-Hr. Flow (Qpk) 4	250,000 GPD	174 GPM
	Second	Phase
Average Daily Flow (Qav)	125,000 GPD	87 GPM
Peak 2-Hr. Flow (Qpk) 4	500,000 GPD	347 GPM

Refer to Attachment "A" - Process Design Calculations, Hydraulic Profile Calculations, Process Flow Diagrams, and Plant Discharge relationship for the 100 year flood.

6. PROCESS DESIGN The Sewage Treatment Plant has been designed to produce an effluent in compliance with permitted perameters of: BOD5 = 10 mg/l, TSS = 15 mg/l, and Chlorine Residual = 1mg/l after 20 minutes contact

Compressed air will be supplied to the process units by multiple blowers.

7.	FLOOD HAZARD ANALYSIS The 100 Year Flood Elevation is	s f	eet and is confined to	th
	flood control and drainage, which has a bank elevation of	feet.	The plant is capable	of
	discharging at peak flow against the 100 year flood elevation			

### 8. SLUDGE DISPOSAL

Digester..... Aerobic

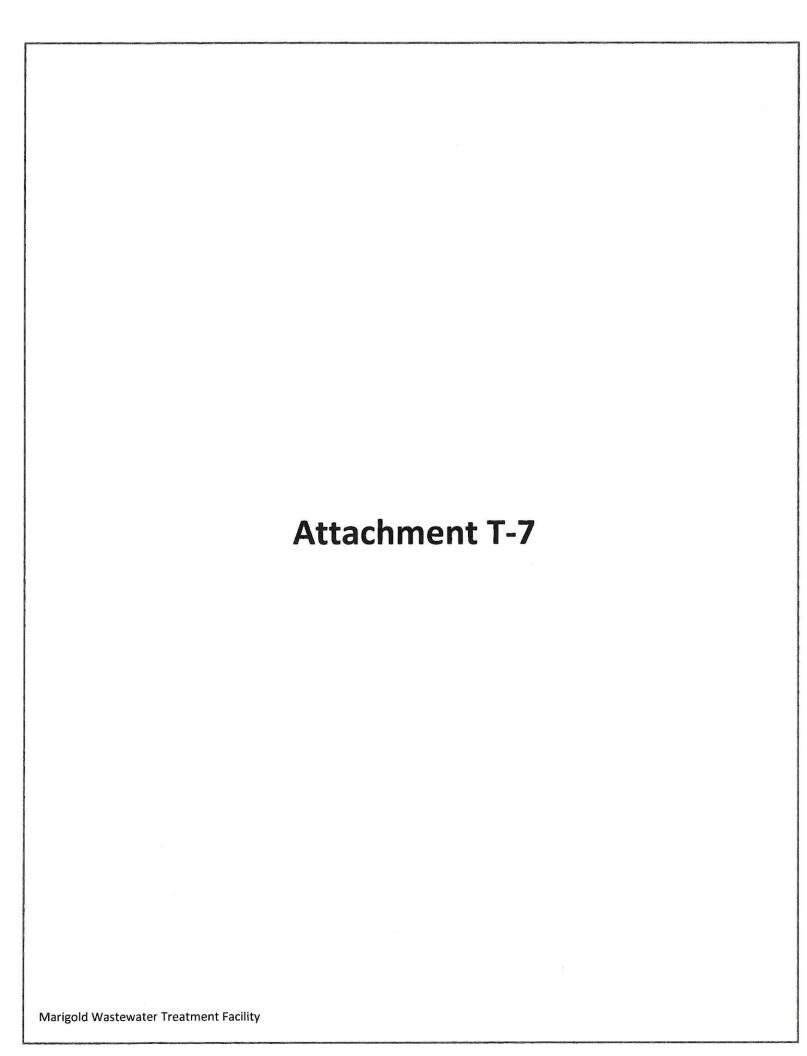
Transportation..... Contract Hauler

Final Disposition ...... To be Determined by Contract Hauler

## **Proposed Organic Loading**

Influent Conditions	First Phase GPD GPM	Second Phase GPD GPM
Average Daily Flow - Qav	62,500 43	125,000 87
2hr. Peak Flow (Qpk)	250,000 174	500,000 347
BOD <sub>5</sub> (lbs/day)@. <mark>1668</mark> lb/capita	156.375	312.75
2 hr AverageFlow (Qav) cf/sec	0.10	0.19
2 hr Peak Flow (Qpk) cf/sec	0.39	0.77
Effluent (30 Day Average)	000	
BOD <sub>5</sub> (mg/l)	300	
TSS (mg/l)	300	
Process Loadings		
MLSS (mg/l)	3000	
RASS (mg/l)	6000	
Areation		
Total Aeration Vol. Available	4481.4 cf	8962.8 cf
Organic Loading (lbs/day/1000cu ft)	34.9 lbs	34.9 lbs
TCEQ Maximum Organic Loading	35 lbs	35 lbs
lbs/day/1000cu ft	00 100	00 100
<u>Digester</u>		
Total Volume Available	3201 cf	6402 cf
Digester Loadings	20.5 cf/lb	20.5 cf/lb
(Vol.) / (lbs BOD <sub>5</sub> )		
TCEQ Minimum Volume for Organic Loading	20 cf/lb	20 cf/lb
Retention Time		
(Vol) / (BOD <sub>5</sub> )(1.1355)	18.0 days	18.0 days
01		
<u>Clarifier</u> Diameter	26 ft ( Dia "A")	26 ft ( Dia "A")
Diameter	0 ft ( Dia "B")	the state of the s
	0 ft ( Dia "C")	
Area	530.9 sf	530.9 sf
TCEQ Maximum Surface Loading @	1,200 GPD/sf	1,200 GPD/sf
Qav	470.87 GPD/sf	
Surface Loading @ Qpk	470.07 GPD/SI	941.75 GPD/sf
Stilling Well Diameter	3 ft (Dia "A")	3 ft (Dia "A")
	0 ft (Dia "B")	<pre>0 ft (Dia "B")</pre>
	0 ft (Dia "C")	0 ft (Dia "C")
Stilling Well Aera	7.07 sf	7.07 sf

Vert. Flow Velosity @ Qpk (CFS) / (Area)	0.05 ft/sec	0.11 ft/sec
	Third Phase	Third Phase
Clarifier Weir		
Weir Diameter	24 ft ("A")	24 ft ("A")
	1 ft ("B")	1 ft ("B")
Weir Length	75.4 ft ("A")	75.4 ft ("A")
	1.0 ft ("B")	1.0 ft ("B")
Total Weir length	240.0	240.0
Maximum Weir loading at Qpk	20,000 GPD/sq.ft.	20,000 GPD/sq.ft.
Weir Loading at Qpk	1,041.6 GPD/sq.ft.	2,083.2 GPD/sq.ft.
Chlorine Contact Chamber	404.0	000.4
Volume Required by TCEQ	464.2	928.4
Volume Furnished cf	1000.00 cf	1000.00 cf
Volume gal	7,480.0 gal	7,480.0 gal
Min TCEQ Detention Time Detention Time @ Qpk	20 min	20 min
(Vol. Gal)(1440) / (Qpk GPD) Dosage Rate	43.1 min	21.5 min
lb/day=Qpk MGD**mg/1*8.34 Solution Water Supply	23.98 lb/day	47.96 lb/day
GPM=20 Gpm/100lb/day	4.80 GPM	9.59 GPM

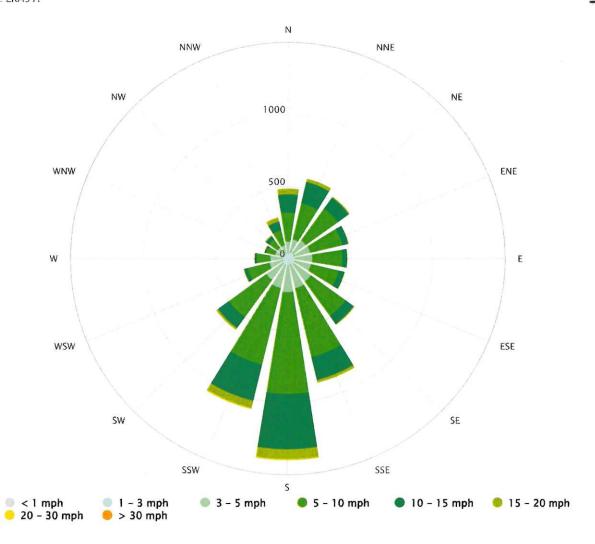


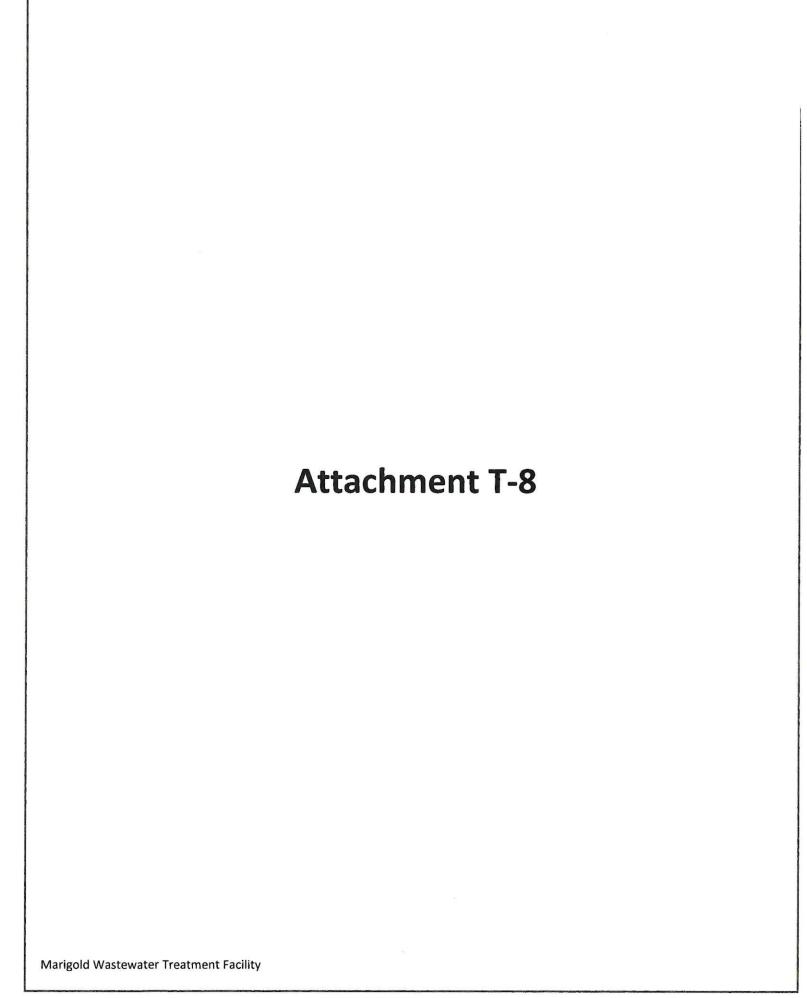
### Houston

29.76°N, 95.36°W (12 m asl). Model: ERAST.

### meteoblue<sup>\*</sup>







### **SLUDGE PRODUCTION RATES**

	Avg. Da	Ph ily Flow (M	ase I GD) =	0.063	
I. PARAMETERS	<u>100%</u>	Percent <b>75%</b>	t Capacity <u>50%</u>	<u>25%</u>	
Average Daily Flows (MGD)	0.0625	0.046875	0.03125	0.015625	
Dimensions & Volume of Digester	Volume =	3,201	cu.ft. =	23,943	gal
CBOD₅ Removal		Effluent Cor	ncentration = ncentration = et Removal =	300 10 290	mg/l mg/l mg/l
II. DAILY SLUDGE PRODUCTION				<b>.</b> 83	
Lbs. BOD <sub>5</sub> /day Removal	151	113	76	38	
Lbs.of Dry Sludge ( using sludge age =30days at 20°C, 0.315 lbs. Sludge/lb. $BOD_5$ removed )	48	36	24	12	
Lbs of Wet Sludge Produced (assume 1.5% solids, lbs.dry/0.015)	3,174	2,381	1,587	794	
Volume of Wet Sludge Produced (gal/day)'= lbs. wet /8.34 lbs/gal	381	285	190	95	
III. REMOVAL SCHEDULE					
Digester (gal) / Vol wet sludge produced = days between empties	63	84	126	252	

### **Process Loadings**

MLSS (mg/l) =

3000

Sludge will stay in the digester, clear liquor will be decanted off the digester and returned to the process to thicken the wasted solids.

Once the digester is full of thickened solids, the contents will be hauled by **the contracted sludge hauler** to one of the approved land application sites.

The sludge hauler will supply sludge hauling manifests showing volumes and concentration of sludge removed from the plant.

### **SLUDGE PRODUCTION RATES**

	Phase II  Avg. Daily Flow (MGD) = 0.125				
I. PARAMETERS	<u>100%</u>	Percent 75%	Capacity 50%	<u>25%</u>	
Average Daily Flows (MGD)	0.125	0.09375	0.0625	0.03125	
Dimensions & Volume of Digester	Volume =	6,402	cu.ft. =	47,887	gal
CBOD₅ Removal		Influent Cond Effluent Cond Net		300 10 290	mg/l mg/l mg/l
II. DAILY SLUDGE PRODUCTION					
Lbs. BOD <sub>5</sub> /day Removal	302	227	151	76	
Lbs.of Dry Sludge ( using sludge age =30days at 20°C, 0.315 lbs. Sludge/lb. $BOD_5$ removed )	95	71	48	24	
Lbs of Wet Sludge Produced (assume 1.5% solids, lbs.dry/0.015)	6,349	4,762	3,174	1,587	
Volume of Wet Sludge Produced (gal/day)'= lbs. wet /8.34 lbs/gal	761	571	381	190	
III. REMOVAL SCHEDULE					
Digester (gal) / Vol wet sludge produced = days between empties	63	84	126	252	

### **Process Loadings**

MLSS (mg/l) =

3000

Sludge will stay in the digester, clear liquor will be decanted off the digester and returned to the process to thicken the wasted solids.

Once the digester is full of thickened solids, the contents will be hauled by **the contracted sludge hauler** to one of the approved land application sites.

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